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# CONTENTS.

	Page.
Bacteriological procedure in suspected cholera, with report of a positive case..	1477

## UNITED STATES.

Plague-prevention work:	
Animals examined for plague infection.....	1480
Distribution of poison.....	1480
Record of plague infection.....	1480
Rats collected and examined for plague infection.....	1481
Squirrels collected and examined for plague infection.....	1481
Other animals collected and examined.....	1481
Smallpox in the United States:	
Reports received during the week ended October 21.....	1482
Reports received from June 25 to October 14.....	1483
Cholera in the United States.....	1491
Plague in the United States.....	1491
Morbidity and mortality:	
Weekly morbidity and mortality table, cities of the United States.....	1491
Morbidity and mortality, States and cities of the United States, untabulated.	1493

## FOREIGN AND INSULAR.

Measures to prevent the introduction of cholera into the United States:	
At Libau and Odessa.....	1495
At Bremen.....	1495
At Catania and Messin.....	1496
Reports from:	
Austria-Hungary—	
Cholera.....	1496
Cuba—	
Transmissible diseases in the Republic.....	1497
Germany—	
Cholera.....	1497
India—	
Calcutta—Cholera and plague.....	1497
Italy—	
Status of cholera.....	1498
Japan—	
Kobe—Cholera—Examination of rats.....	1499
Mexico—	
Yellow fever at Campeche.....	1500
Peru—	
Status of plague.....	1500
Philippine Islands—	
Manila—Cholera.....	1501

## Reports from—Continued.

	Page.
Russia—	
Status of cholera .....	1502
Libau—Smallpox—Examination of emigrants .....	1502
Odessa—Cholera and plague.....	1502
Measures against plague.....	1502
Servia—	
Belgrade—Cholera.....	1503
Uruguay—	
Precautions against importation of cholera.....	1503
Venezuela—	
Puerto Cabello—Yellow fever.....	1504
Cholera, yellow fever, plague, and smallpox:	
Reports received during week ended October 21—	
Cholera.....	1504
Yellow fever.....	1506
Plague.....	1506
Smallpox.....	1506
Reports received from June 25 to October 14—	
Cholera.....	1507
Yellow fever.....	1509
Plague .....	1510
Smallpox.....	1512
Mortality:	
Mortality table, foreign and insular, cities.....	1514
Mortality—Foreign and insular—Countries and cities—Untabulated.....	1515



# PUBLIC HEALTH REPORTS.

Vol. XXV.

OCTOBER 21, 1910.

No. 42.

## BACTERIOLOGICAL PROCEDURE IN SUSPECTED CHOLERA, WITH REPORT OF A POSITIVE CASE.

By JOHN F. ANDERSON, Director Hygienic Laboratory, United States Public Health and Marine-Hospital Service, and A. M. STIMSON, Passed Assistant Surgeon, United States Public Health and Marine-Hospital Service.

Since the beginning of the present epidemic of cholera in Europe the possibility of cases being found on ships arriving at ports in this country has constantly been kept in mind by the Surgeon-General of the Public Health and Marine-Hospital Service. This possibility has been considerably increased by the appearance of the disease in Italy, especially in the city of Naples, which is the point of embarkation for large numbers of immigrants to the United States.

In order that the Hygienic Laboratory might be prepared to render expert aid in the diagnosis of suspected cases of cholera, a supply of cholera agglutinating and also bacteriolytic serum was obtained.

With the use of this serum a positive opinion could be given as to whether organisms isolated from suspected cases of cholera or from suspected carriers were the cholera vibrio. The officers in the Hygienic Laboratory also reviewed the various methods proposed for the isolation and identification of the cholera vibrio in order that when called upon they might be able to render expert aid in the diagnosis of cholera.

The importance of these procedures was shown in the following report on the diagnosis of a case of cholera that appeared in an immigrant who arrived at New York on a ship from Naples and was removed to the quarantine station in accordance with the precautionary methods enforced by Dr. A. H. Doty, quarantine officer.

The suspected organism was isolated from the feces of this person by Dr. E. C. Baldwin, bacteriologist of the New York quarantine. On account of certain cultural and morphological appearances it was suspected of being the cholera vibrio and was brought to the Hygienic Laboratory by Doctor Baldwin in order that agglutination and bacteriolytic tests should be made with it.

The following data as to the patient were kindly furnished us by Doctor Baldwin by letter and are quoted verbatim:

The patient, Moiazoin Seabain, a Turk, aged 28 years, was removed for observation along with 5 others from the steamship *Germania*, arrived at New York on September 26 (Marseille, September 10, and Naples, September 13). These patients were all treated during the voyage for malaria and were discharged before arrival at this port. When taken from the ship the patient climbed down the ladder and walked into the hospital. On admission it was noted that he was rather weak, with temperature normal. He was given a dose of calomel and the following day, September 27, a dose of salts, the calomel not having taken effect. The next day there were 4 copious

loose movements of the bowels with severe abdominal pain, followed immediately by collapse. The morning and evening temperature on September 28 was subnormal. On September 29, between 8 and 10 a. m., there were several more loose movements, and at 10.30 a. m. the patient died.

At autopsy the spleen was found to be much enlarged, but not much softened; the stomach and intestines were congested, particularly the intestines. The Peyer's patches were prominent. The mucosa of the stomach was covered with thick mucus streaked in places with dark blood. The intestines contained a moderate amount of rather thin, yellow fecal matter. The fluid was considerably increased in the pericardial sac, the pleural cavities and also in the meninges and ventricles of the brain. The other organs of the body did not show any pronounced changes.

The material for cultures, etc., was obtained from the stools of September 28, the first that aroused suspicion of the nature of the case.

**BACTERIOLOGICAL EXAMINATION OF SUSPECTED CHOLERA VIBRIO CULTURES BROUGHT TO THE HYGIENIC LABORATORY, OCTOBER 3, 1910.**

**MATERIAL.**—The cultures submitted were on 3 per cent salt agar and in peptone solution.

**Morphology.**—Very actively motile curved rods, apparently in pure culture.

**Flagella.**—Single, terminal.

**Staining.**—Stain easily with  $\frac{1}{10}$  carbol fuchsin and other dilute dyes. Gram negative.

**CULTURAL REACTIONS.**—(media neutral to phenol-phthalein).

**Bouillon.**—Evenly distributed turbidity 18 hours. No precipitate. Delicate grayish pellicle.

**Peptone water.**—As in bouillon, slightly less turbid.

**Agar stab.**—Grayish, finely granular needle track growth, round whitish surface growth.

**Gelatin stab.**—Delicate needle track growth 18 hours. Liquefaction from surface, (22° C.).

**Gelatin plates.**—Typical, sunken, ground-glass colonies.

**Indol production.**—Pink color produced in peptone water culture 18 hours old on addition of a few drops of sulphuric acid; cholera-red reaction.

**IMMUNITY REACTIONS.**—

**Agglutination.**—Suspension of 18 hours agar slant growth in salt solution, began to agglutinate after 20 minutes at 37° C. and was completely agglutinated in 1 hour at a dilution of 1-2,000 of specific serum having a titre of 1-2,000 with known cholera organisms. Later test with another serum gives agglutination to 1-10,000. Normal serum negative 1-200.

**Pfeiffer's reaction.**—Bacteriolysis accomplished by a specific cholera bacteriolytic serum having a titre of 1-10,000, in dilutions of 1-5,000 and 1-8,000, no higher dilutions being tried. This occurred in 20 minutes in the peritoneal cavity of guinea pigs. The protocol of the experiment is as follows:

G. P.	Serum.	Culture.	Injected.	Fluid examined—Result.
1	1 c. c. 1-5,000 dilution in bouillon of specific rabbit serum.	1 loop 18 hour-agar slant.	Oct. 4, 1910. 2 p. m. ....	2.25 p. m. No motile vibrios. Spherical, and other degenerated forms. Do.
2	1 c. c. 1-8,000 dilution in bouillon of specific rabbit serum.	.....do.....	.....do.....	Do.
3	1 c. c. 1-200 dilution in bouillon of fresh rabbit serum.	.....do.....	2.05 p. m. ....	Vibrios active and well preserved.
4	1 c. c. bouillon, no serum.....	.....do.....	.....do.....	Vibrios active and well preserved. Died October 5, 1910, after 21 hours.

**IMMUNITY REACTIONS—Continued.**

*Conclusion.*—The organism corresponds in all its peculiarities to the true cholera vibrio. While cultural and morphologic characters can not be regarded as in any sense conclusive, the agglutination and Pfeiffer's test are generally accepted as offering positive evidence of the identity of the organism.

**METHOD OF BACTERIOLOGICAL EXAMINATION FOR AND IDENTIFICATION OF THE ORGANISM OF ASIATIC CHOLERA, FOR PUBLIC HEALTH AND QUARANTINE PURPOSES.**

Suitable materials for examination are the feces, obtained if necessary by an enema of sterile water, or the vomitus, from suspected cases, or intestinal contents from various portions of the ileum, particularly the last portion, obtained at autopsy from the dead body.

The media used in cultural work should be neutral to phenolphthalein.

The material is first plated out on previously poured, hardened, and dried 3 per cent agar, by smearing it out on several successive plates by means of a sterile bent glass rod. Mucous flakes from the intestinal contents should be selected, if possible, for this purpose. These plates are incubated over night at 37° and suspicious colonies examined for morphology and motility in stained smears and the hanging drop. Colonies of active vibrios are then tested for agglutination by emulsifying a portion of the colony in a drop of diluted specific serum, with the platinum needle, using as a control a ten times as strong concentration of normal serum from the same animal species. Colonies not agglutinating should not be discarded but sown on agar slants for further tests, since agglutination of freshly isolated cholera vibrios does not always occur. This is the method giving the quickest results, but since it may often fail the material must also be put through an enrichment process.

The fresh material, about 1 c. c. in amount, is added to 100 c. c. of warm peptone solution in a flask, which is incubated at 37°. After 6 hours a loop is taken from the surface without jarring the flask and examined microscopically. If active vibrios are present agar plates are made with loops from the surface, incubated and examined as in the case of fresh material. If no vibrios are found in 6 hours repeat the examination in 12-24 hours.

A positive agglutination at this stage, controlled as above, justifies a tentative diagnosis of cholera, but the isolated colonies must be fished to agar slants for further examination, as should also colonies of active vibrios which fail of preliminary agglutination.

The pure cultures of active vibrios on agar slants are now to be examined morphologically, culturally, and biologically. The cholera vibrio reacts in the following manner to these tests, always with the understanding that the biological tests (agglutination and Pfeiffer's test) take precedence:

Actively motile, curved rods, nonspore-bearing, having terminal flagellum, easily stained by  $\frac{1}{10}$  cold carbol fuchsin, Gram negative, causing uniform turbidity in bouillon and peptone solution with delicate pellicle formation, liquefying gelatin from the surface of stab, or on plates so as to depress the colony, producing indol in peptone solution without the addition of nitrite, agglutinated by specific serum at or near the maximum titre, responding to the bacteriolytic test with specific bacteriolytic serum by Pfeiffer's method properly controlled.

# UNITED STATES.

REPORTS TO THE SURGEON-GENERAL, PUBLIC HEALTH AND MARINE-HOSPITAL SERVICE.

## PLAGUE-PREVENTION WORK.

Surgeon Blue reports:

### ANIMALS EXAMINED FOR PLAGUE INFECTION.

During the week ended October 1, 1910, there were examined at the federal laboratory at San Francisco and the branch laboratories at Oakland and Los Angeles, Cal., animals as follows: Squirrels 3,230, rabbits 9, gophers 2, rats 2,047. The rats were identified as follows: *Mus norvegicus* 1,786, *Mus rattus* 115, *Mus alexandrinus* 104, *Mus musculus* 42.

No plague-infected animals were found.

### DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities on San Francisco Bay, 1,225 acres of land in Contra Costa County, 15 acres in Merced County, and 262 acres in San Mateo County were covered with poison during the week ended October 1, 1910.

### Record of Plague Infection.

Place.	Date of last case of human plague.	Date of last case of rodent plague.	Total number of rodents found infected since May, 1907.
<b>California:</b>			
<b>Cities—</b>			
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	398 rats.
Oakland.....	Oct. 26, 1909	Dec. 1, 1908	126 rats.
Berkeley.....	Aug. 28, 1907	None recorded.	
Los Angeles.....	Aug. 11, 1908	Aug. 21, 1908	1 squirrel.
<b>Counties—</b>			
Alameda (exclusive of the city of Oakland)...	Sept. 26, 1909	May 30, 1910	82 squirrels, 1 wood rat.
Contra Costa.....	July 21, 1908	Sept. 10, 1910	247 squirrels.
Merced.....	None recorded.	June 6, 1910	2 squirrels.
Monterey.....	do.....	do.....	4 squirrels.
San Benito.....	June 5, 1910	July 11, 1910	20 squirrels.
San Joaquin.....	None recorded.	Aug. 19, 1910	6 squirrels.
San Luis Obispo.....	do.....	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Sept. 5, 1910	June 22, 1910	22 squirrels.
Santa Cruz.....	None recorded.	May 17, 1910	3 squirrels.
Stanislaus.....	do.....	May 21, 1910	5 squirrels.
<b>Washington:</b>			
Seattle.....	Oct. 30, 1907	Feb. 8, 1910	22 rats.

## Rats Collected and Examined for Plague Infection.

Place.	Week ended—	Found dead.	Total collected.	Examined.	Found infected.
<b>California:</b>					
Berkeley.....	Oct. 1		a 127	127	
Oakland.....	do.	30	b 707	608	
San Francisco.....	do.	47	c 1,998	1,312	
Total.....		77	2,832	2,047	

a Identified, *Mus norvegicus* 85, *Mus musculus* 42.b Identified, *Mus norvegicus* 624, *Mus rattus* 1, *Mus musculus* 111, *Mus alexandrinus* 1.c Identified, *Mus norvegicus* 1,411, *Mus rattus* 114, *Mus musculus* 330, *Mus alexandrinus* 103.

## Squirrels Collected and Examined for Plague Infection.

Place.	Week ended—	Trapped and shot.	Found dead.	Examined.	Found infected.
<b>California:</b>					
Cities—					
San Francisco.....	Oct. 1...	10		9	
Counties—					
Calaveras.....	do.	149		149	
Contra Costa.....	do.	251	7	258	
Fresno.....	do.	375		372	
Los Angeles.....	do.	202	2	196	
Madera.....	do.	13		13	
Merced.....	do.	84	21	105	
Monterey.....	do.	382		376	
Sacramento.....	do.	229	1	230	
San Joaquin.....	do.	271		266	
San Luis Obispo.....	do.	941		913	
San Mateo.....	do.	8	33	41	
Santa Clara.....	do.	28		28	
Solano.....	do.	159		159	
Tuolumne.....	do.	115		115	
Total.....		3,223	64	3,230	

## Other Animals Collected and Examined.

Place.	Week ended—	Animals collected.	Examined.	Found infected.
<b>California:</b>				
Cities—				
San Francisco.....	Oct. 1...	3 gophers.....	2	
Counties—				
Merced.....	do.	3 wood rats.....		
San Luis Obispo.....	do.	5 rabbits.....	5	
San Mateo.....	do.	17 field mice.....		
Santa Clara.....	do.	3 rabbits.....	3	
Solano.....	do.	1 rabbit.....	1	
Total.....			11	

## SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended October 21, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Mobile.....	Oct. 2-8.....	2		
Colorado:				
Archuleta County.....	Sept. 1-30.....	1		
Denver County.....	Sept. 1-30.....	16		
Huerfano County.....	Sept. 1-30.....	4		
Montezuma County.....	Sept. 1-30.....	1		
Otero County.....	Sept. 1-30.....	1		
Prowers County.....	Sept. 1-30.....	5		
Saguache County.....	Sept. 1-30.....	7		
Teller County.....	Sept. 1-30.....	4		
Connecticut.....	Sept. 1-30.....	None.	None.	
Indiana.....	Aug. 1-31.....	6		In 3 counties.
Iowa:				
Linn County.....	Sept. 1-30.....	1		
Polk County.....	Sept. 1-30.....	1		
Warren County.....	Sept. 1-30.....	7		
Louisiana:				
New Orleans.....	Oct. 2-8.....	7		
Maryland.....	Aug. 1-Sept. 30.....	None.	None.	
Massachusetts.....	Sept. 1-30.....	None.	None.	
Michigan:				
St. Clair County.....	May 1-31.....	43		Not previously reported
Tuscola County.....	June 1-30.....	4		Do.
Bay County.....	Aug. 1-31.....	5		Do.
Benzie County.....	Sept. 1-30.....	1		
Cheboygan County.....	Sept. 1-30.....	1		
Emmett County.....	Sept. 1-30.....	1		
Genesee County.....	Sept. 1-30.....	5		
Gratiot County.....	Sept. 1-30.....	8		
Manistee County.....	Sept. 1-30.....	2		
Missaukee County.....	Sept. 1-30.....	4		
Missaukee County.....	Sept. 1-30.....	3		
Osceola County.....	Sept. 1-30.....	2		
Saginaw County.....	Sept. 1-30.....	5		
Minnesota:				
Brown County.....	Aug. 1-7.....	1		
Faribault County.....	Aug. 8-14.....	1		
Hennepin County.....	Aug. 1-Sept. 4.....	11		
Mower County.....	Aug. 1-7.....	1		
Nicollet County.....	Sept. 12-18.....	1		
Ramsey County.....	Aug. 8-Sept. 18.....	9		
St. Louis County.....	Aug. 15-28.....	3		
Washington County.....	Sept. 5-11.....	1		
Watsonwan County.....	Sept. 5-11.....	1		
Missouri:				
Andrew County.....	Oct. 2-8.....	6		
New York; entire State.....	Aug. 1-31.....	9		
North Dakota:				
Cass County.....	Sept. 1-30.....	1		
Steele County.....	Sept. 1-30.....	1		
Oklahoma:				
Bryan County.....	Aug. 1-31.....	25		
Caddo County.....	Aug. 1-31.....	5		
Canadian County.....	Aug. 1-31.....	1	1	
Grady County.....	Aug. 1-31.....	7	1	
Nowata County.....	Aug. 1-31.....	6		
Oklahoma.....	Aug. 1-31.....	2		
Pittsburg County.....	Aug. 1-31.....		1	
Seminole County.....	Aug. 1-31.....	1		
Sequoyah.....	Aug. 1-31.....	1		
Tillman.....	Aug. 1-31.....	1		
Tulsa County.....	Aug. 1-31.....	2		
Tennessee:				
Chattanooga.....	Oct. 2-8.....	1		
Wisconsin:				
Green County.....	Sept. 1-30.....	2		
Grant County.....	Sept. 1-30.....	1		
Iowa County.....	Sept. 1-30.....	3		
Milwaukee County.....	Sept. 1-30.....	2		
Waupaca County.....	Sept. 1-30.....	1		
Sawyer County.....	Sept. 1-30.....	3		



## SMALLPOX IN THE UNITED STATES—Continued.

## Reports Received from June 25 to October 14, 1916.

For reports received from January 1, 1910, to June 24, 1910, see Public Health Reports for June 24, 1916.  
In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Alabama:</b>				
Birmingham.....	June 12-Aug. 6....	11		
Mobile.....	June 12-Oct. 1....	18		
Montgomery.....	June 12-25.....	6		
Total for State.....		35		
<b>Arkansas:</b>				
Fort Smith.....	June 19-25.....	1		
<b>California, general:</b>				
Amador County.....	May 1-June 30....	27		
Hamlet County.....	July 1-Aug. 31....	2		
Los Angeles County.....	Aug. 1-31.....	2		
Sacramento County.....	July 1-31.....	1		
San Francisco County.....	Aug. 1-31.....	1		
San Joaquin County.....	July 1-Aug. 31....	2		
Santa Clara County.....	July 1-Aug. 31....	4		
Total for State.....		41		
<b>Colorado:</b>				
Conejos County.....	Apr. 1-30.....		1	
Las Animas County.....	Mar. 1-Apr. 30....		2	
Logan County.....	May 1-31.....		1	
Montrose County.....	Apr. 1-30.....		1	
Adams County.....	July 1-31.....	3		
Archuleta County.....	June 1-Aug. 31....	17		
Chaffee County.....	July 1-Aug. 31....	3		
Clear Creek County.....	Aug. 1-31.....	1		
Conejos County.....	June 1-Aug. 31....	4		
Delta County.....	June 1-30.....	2		
Denver County.....	June 1-Aug. 31....	35		
El Paso County.....	July 1-Aug. 31....	3		
Huerfano County.....	June 1-Aug. 31....	15		
Kit Carson County.....	June 1-30.....	4		
Larimer County.....	June 1-30.....	1		
Las Animas County.....	June 1-Aug. 31....	7		
Logan County.....	June 1-30.....	1		
Mesa County.....	June 1-30.....	1		
Montrose County.....	June 1-30.....	5		
Otero County.....	June 1-30.....	4		
Prowers County.....	June 1-July 31....	12		
Pueblo County.....	July 1-31.....	1		
Rio Grande County.....	June 1-30.....	4		
Saguache County.....	June 1-July 31....	13		
San Miguel County.....	June 1-30.....	1	1	
Teller County.....	June 1-July 31....	2		
Weld County.....	June 1-30.....	5		
Total for State.....		144	6	
<b>District of Columbia:</b>				
District of Columbia.....	July 3-Sept. 17....	15		
Total for District.....		15		
<b>Florida:</b>				
Brevard County.....	Aug. 7-13.....	1		
Duval County.....	June 19-25.....	2		
Gadsden County.....	July 3-Aug. 13....	11		
Hillsboro County.....	July 17-Aug. 6....	2		
Jackson County.....	June 19-Aug. 6....	3		
Jefferson County.....	July 10-Aug. 6....	4		
Leon County.....	Mar. 1-31.....		1	
Liberty County.....	July 17-23.....	14		
Santa Rosa County.....	July 31-Aug. 6....	2		
Taylor County.....	July 3-9.....	1		
Walton County.....	June 12-18.....	1		
Total for State.....		41	1	
<b>Georgia:</b>				
Columbus.....	July 3-9.....	6		
Macon.....	Apr. 1-June 30....	8		
Total for State.....		14		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Illinois:</b>				
Adams County.....	June 1-30.....	2	.....	
Clay County.....	June 1-30.....	1	.....	
Coles County.....	June 1-Aug. 31.....	30	.....	
Cook County.....	June 1-30.....	1	.....	
Chicago.....	June 1-Aug. 31.....	3	.....	
Edgar County.....	June 1-30.....	2	.....	
Franklin County.....	June 1-30.....	1	.....	
Henry County.....	July 1-31.....	3	.....	
Iroquois County.....	June 1-30.....	1	.....	
Jo Daviess County.....	June 1-July 31.....	9	.....	
Kendall County.....	June 1-July 31.....	2	.....	
Knox County.....	June 1-July 31.....	6	.....	
Madison County.....	June 1-Aug. 31.....	23	.....	
Marion County.....	June 1-30.....	3	.....	
Montgomery County.....	June 1-30.....	6	.....	
Peoria County.....	June 1-Aug. 31.....	6	.....	
Perry County.....	June 1-30.....	1	.....	
Pulaski County.....	June 1-30.....	1	.....	
Randolph County.....	June 1-30.....	1	.....	
Richland County.....	June 1-Aug. 31.....	9	.....	
Rock Island County.....	June 1-Aug. 31.....	8	.....	
St. Clair County.....	June 1-30.....	1	.....	
Sangamon County.....	June 1-30.....	1	.....	
Tazewell County.....	June 1-30.....	2	.....	
Union County.....	June 1-30.....	4	.....	
Wayne County.....	June 1-30.....	3	.....	
Williamson County.....	June 1-30.....	2	.....	
Total for State.....		132	.....	
<b>Indiana:</b>				
Allen County.....	May 1-June 30.....	8	.....	
Carroll County.....	June 1-30.....	1	.....	
Clay County.....	June 1-30.....	2	.....	
Clinton County.....	May 1-31.....	1	.....	
Dekalb County.....	June 1-30.....	1	.....	
Delaware County.....	May 1-31.....	4	.....	
Elkhart County.....	May 1-31.....	1	.....	
Gibson County.....	May 1-31.....	1	.....	
Grant County.....	May 1-June 30.....	13	.....	
Greene County.....	May 1-31.....	9	.....	
Howard County.....	May 1-June 30.....	21	.....	
Lake County.....	June 1-30.....	1	.....	
Madison County.....	June 1-30.....	6	.....	
Marion County.....	May 1-June 30.....	6	.....	
Marshall County.....	June 1-30.....	1	.....	
Martin County.....	June 1-30.....	4	.....	
Miami County.....	June 1-30.....	6	.....	
Montgomery County.....	June 1-30.....	6	.....	
Orange County.....	May 1-31.....	13	.....	
Owen County.....	May 1-June 30.....	23	.....	
Putnam County.....	June 1-30.....	1	.....	
St. Joseph County.....	May 1-June 30.....	10	.....	
Tipton County.....	May 1-31.....	1	.....	
Vigo County.....	May 1-June 30.....	28	.....	
Warren County.....	June 1-30.....	1	.....	
Wayne County.....	June 1-30.....	6	.....	
Total for State.....		180	.....	
<b>Iowa:</b>				
Benton County.....	June 1-July 31.....	4	.....	
Buchanan County.....	June 1-30.....	2	.....	
Cedar County.....	July 1-31.....	1	.....	
Clayton County.....	June 1-30.....	1	.....	
Dallas County.....	June 1-30.....	1	.....	
Delaware County.....	June 1-30.....	10	.....	
Dubuque County.....	June 1-30.....	1	.....	
Linn County.....	June 1-Aug. 31.....	41	.....	
Plymouth County.....	Aug. 1-31.....	1	.....	
Folk County.....	June 1-July 31.....	19	.....	
Pottawattamie County.....	June 1-Aug. 31.....	21	.....	
Scott County.....	June 1-July 31.....	4	.....	
Warren County.....	Aug. 1-31.....	7	.....	
Webster County.....	July 1-31.....	1	.....	
Winneshiek County.....	June 1-30.....	1	.....	
Woodbury County.....	June 1-30.....	1	.....	
Total for State.....		116	.....	



## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Kansas:</b>				
Allen County.....	May 1-July 31.....	39		
Atchison County—				
Atchison.....	Apr. 1-May 31.....	7		
Barton County.....	June 1-July 31.....	7		
Butler County.....	Apr. 1-June 30.....	8		
Cherokee County.....	June 1-30.....	4		
Clay County.....	July 1-31.....	1		
Coffey County.....	July 1-31.....	1		
Cowley County.....	Apr. 1-July 31.....	12		
Crawford County.....	June 1-30.....	4	1	
Decatur County.....	Apr. 1-July 31.....	37		
Dickinson County.....	May 1-June 30.....	10		
Doniphan County.....	Apr. 1-30.....	10		
Edwards County.....	Apr. 1-June 30.....	4		
Elk County.....	May 1-July 31.....	6		
Ellis County.....	July 1-31.....	3		
Ellsworth County.....	Apr. 1-30.....	1		
Finney County.....	Apr. 1-30.....	2		
Ford County.....	June 1-30.....	1		
Graham County.....	Apr. 1-May 31.....	6		
Greenwood County.....	Apr. 1-June 30.....	56		
Harper County.....	May 1-June 30.....	3		
Harvey County.....	Apr. 1-June 30.....	22		
Hodgeman County.....	July 1-31.....	1		
Jewell County.....	May 1-June 30.....	21		
Kearny County.....	Apr. 1-May 31.....	5		
Kingman County.....	Apr. 1-June 30.....	4		
Labette County—				
Parsons.....	Apr. 1-July 31.....	12		
Lane County.....	May 1-31.....	2		
Leavenworth County.....	Apr. 1-May 31.....	8		
Leavenworth.....	May 1-June 30.....	2		
Lyon County.....	June 1-30.....	11		
Marion County.....	July 1-31.....	1		
McPherson County.....	May 1-June 30.....	14		
Miami County.....	Apr. 1-May 31.....	2		
Montgomery County.....	Apr. 1-July 31.....	63	2	
Coffeyville.....	Apr. 1-June 30.....	12		
Nemaha County.....	July 1-31.....	2		
Neosho County.....	May 1-July 31.....	38		
Norton County.....	Apr. 1-June 30.....	50		
Osage County.....	Apr. 1-May 31.....	6		
Osborne County.....	Apr. 1-June 30.....	33		
Pawnee County.....	Apr. 1-30.....	3		
Phillips County.....	May 1-31.....	6		
Pratt County.....	June 1-July 31.....	2		
Rawlins County.....	June 1-30.....	1		
Reno County.....	Apr. 1-June 30.....	23	3	
Riley County.....	Apr. 1-May 31.....	5		
Rush County.....	Apr. 1-30.....	3		
Saline County.....	Apr. 1-June 30.....	21		
Scott County.....	Apr. 1-May 31.....	5		
Sedgewick County.....	Apr. 1-May 31.....	7		
Wichita.....	Apr. 1-July 31.....	52		
Seward County.....	May 1-31.....	2		
Shawnee County.....	June 1-30.....	1		
Topeka.....	July 1-31.....	7		
Sheridan County.....	Apr. 1-30.....	1		
Sherman County.....	May 1-31.....	1		
Stafford County.....	June 1-July 31.....	4		
Sumner County.....	May 1-31.....	4		
Thomas County.....	Apr. 1-May 31.....	2	1	
Trego.....	June 1-30.....	1		
Wallace County.....	June 1-30.....	1		
Wyandotte County.....	Apr. 1-30.....	4		
Kansas City.....	Apr. 1-June 30.....	57		
Total for State.....		744	7	
<b>Kentucky:</b>				
Covington.....	June 26-July 2.....	1		
Total for State.....		1		
<b>Louisiana:</b>				
Avoyelles Parish.....	June 1-30.....	12		
Calcasieu Parish.....	June 1-30.....	2		
Iberia Parish.....	June 1-30.....	19		
Orleans Parish.....	June 1-30.....			
New Orleans.....	June 12-Oct. 1.....	97		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Louisiana—Continued.</b>				
St. John Parish.....	June 1-30.....	10		
St. Tammany Parish.....	June 1-30.....	2		
Tangipahoa Parish.....	June 1-30.....	25		
Vermilion Parish.....	June 1-30.....	30		
Total for State.....		197		
<b>Maine:</b>				
Biddeford.....	May 1-31.....	1		
Total for State.....		1		
<b>Maryland:</b>				
Allegany County— Cumberland.....	May 1-July 31.....	2		
Total for State.....		2		
<b>Massachusetts:</b>				
Middlesex County.....	July 1-31.....	1		
Suffolk County.....	June 1-July 31.....	8		
Total for State.....		9		
<b>Michigan:</b>				
Alcona County.....	June 1-30.....	1		
Arenac County.....	June 1-30.....	2		
Baraga County.....	Aug. 1-31.....	5		
Bay County.....	June 1-Aug. 31.....	9	2	
Berrien County.....	July 1-Aug. 31.....	2		
Cheboygan County.....	June 1-Aug. 31.....	33		
Clare County.....	June 1-July 31.....	12		
Emmet County.....	Aug. 1-31.....	2		
Eaton County.....	June 1-30.....	7		
Genesee County.....	June 1-Aug. 31.....	44		
Grand Traverse County.....	July 1-Aug. 31.....	6		
Gratiot County.....	June 1-Aug. 31.....	10		
Houghton County.....	June 1-30.....	3		
Huron County.....	June 1-July 31.....	12		
Ingham County.....	June 1-Aug. 31.....	10		
Ionia County.....	June 1-Aug. 31.....	7		
Isabella County.....	June 1-July 31.....	4		
Kalamazoo County.....	June 1-July 31.....	8		
Kent County.....	June 1-30.....	17		
Keweenaw County.....	July 1-31.....	1		
Lapeer County.....	June 1-July 31.....	16		
Livingston County.....	June 1-30.....	17		
Manistee County.....	June 1-30.....	9		
Marquette County.....	June 1-30.....	1	1	
Mason County.....	June 1-Aug. 31.....	11		
Mecosta County.....	June 1-Aug. 31.....	7		
Midland County.....	June 1-July 31.....	11		
Missaukee County.....	June 1-July 31.....	12		
Monroe County.....	June 1-30.....	2		
Montcalm County.....	July 1-31.....	1		
Muskegon County.....	June 1-30.....	2		
Newaygo County.....	June 1-30.....	2		
Oscoda County.....	June 1-Aug. 31.....	5		
Ottawa County.....	June 1-30.....	1		
Roscommon County.....	June 1-30.....	4		
Saginaw County.....	June 1-Aug. 31.....	35		
St. Clair County.....	June 1-Aug. 31.....	51		
Sanilac County.....	June 1-July 31.....	3		
Shiawassee County.....	June 1-Aug. 31.....	54		
Tuscola County.....	June 1-Aug. 31.....	18		
Wayne County.....	June 1-Aug. 31.....	19		
Total for State.....		476	3	
<b>Minnesota:</b>				
Pope County.....	Apr. 1-30.....		1	
St. Louis County.....	June 1-30.....		1	
Rice County.....	Mar. 1-31.....		1	
Beltrami County.....	May 26-June 5.....	4		
Blue Earth County.....	June 6-12.....	1		
Carver County.....	June 13-July 10.....	2		
Faribault County.....	May 26-July 31.....	2		
Hennepin County.....	May 26-July 31.....	53		
Kittson County.....	June 6-19.....	2		
Koochiching County.....	May 26-June 5.....	6		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Minnesota—Continued.</b>				
Lesueur County.....	June 13-19.....	32		
Meeker County.....	June 6-12.....	1		
Mower County.....	July 11-17.....	4		
Ramsey County.....	June 13-July 31.....	22		
Renville County.....	June 6-12.....	1		
Rice County.....	May 26-July 10.....	2		
St. Louis County.....	May 26-June 5.....	10		
Stearns County.....	June 20-26.....	1		
Steele County.....	June 6-19.....	2		
Wabasha County.....	June 13-26.....	2		
Wright County.....	July 4-31.....	2		
Total for State.....		149	3	
<b>Mississippi:</b>				
Marshall County.....	Sept. 25-Oct. 1.....	1		
Natchez.....	July 24-30.....	5		
Yazoo City.....	Sept. 25-Oct. 1.....	1		
Total for State.....		7		
<b>Missouri:</b>				
Kansas City.....	May 15-Aug. 20.....	36		
St. Louis.....	June 12-July 16.....	9		
Savannah.....	June 26-July 2.....	5		
Total for State.....		50		
<b>Montana:</b>				
Beaverhead County.....	June 1-30.....	1		
Cascade County.....	June 1-30.....	1		
Custer County.....	Apr. 1-30.....		1	
Dawson County.....	June 1-Aug. 31.....	14		
Fergus County.....	June 1-July 31.....	8		
Flathead County.....	June 1-30.....	1		
Meagher County.....	June 1-30.....	1		
Park County.....	June 1-Aug. 31.....	2		
Rosebud County.....	June 1-Aug. 31.....	4		
Silver Bow County.....	June 1-Aug. 31.....	12		
Butte.....	June 1-Aug. 31.....	43		
Teton County.....	July 1-31.....	2		
Yellowstone County.....	June 1-30.....	2		
Total for State.....		91	1	
<b>Nebraska:</b>				
Lincoln.....	Apr. 1-July 31.....	31		
South Omaha.....	June 1-30.....	3		
Total for State.....		34		
<b>New Jersey:</b>				
Cumberland County.....	June 1-Aug. 31.....	7		
Total for State.....		7		
<b>New York, general:</b>				
Erie County—	June 1-July 31.....	53	3	
Buffalo.....	May 1-31.....	1		
Tonawanda Township.....	May 1-31.....	2		
Niagara County—				
Niagara Falls.....	May 1-31.....	1		
North Tonawanda.....	May 1-31.....	1		
St. Lawrence County.....	May 1-31.....	19		
Schenectady County.....	May 1-31.....	2		
Total for State.....		79	3	
<b>North Carolina:</b>				
Forsyth County.....	Feb. 1-28.....		1	
Rowan County.....	Feb. 1-28.....		1	
Alamance County.....	Mar. 1-July 31.....	42		
Alexander County.....	Mar. 1-June 30.....	75		
Anson County.....	Apr. 1-July 31.....	11		
Ashe County.....	Mar. 1-31.....	12		
Beaufort County.....	Mar. 1-June 30.....	5		
Bladen County.....	Apr. 1-July 31.....	29		
Brunswick County.....	July 1-31.....	2		
Buncombe County.....	June 1-July 31.....	2		
Cabarrus County.....	Mar. 1-July 31.....	16		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>North Carolina—Continued.</b>				
Caldwell County.....	Mar. 1-Aug. 31....	13	1	
Catawba County.....	Mar. 1-June 30....	42		
Chatham County.....	Mar. 1-July 31....	19		
Chowan County.....	Mar. 1-31.....	3		
Cleveland County.....	June 1-30.....			Few cases.
Columbus County.....	Apr. 1-Aug. 31....	25		
Craven County.....	Mar. 1-31.....	1		
Currituck County.....	Mar. 1-June 30....	23		
Davidson County.....	Mar. 1-July 31....	15		
Davie County.....	Mar. 1-31.....	8		
Durham County.....	Mar. 1-Aug. 31....	32		
Edgecombe County.....	June 1-30.....	1		
Forsyth County.....	Mar. 1-Aug. 31....	29		
Franklin County.....	Mar. 1-31.....	5		
Gaston County.....	Mar. 1-July 31....	14	2	
Graham County.....	Mar. 1-Apr. 30....	8		
Greene County.....	Mar. 1-June 30....	20		
Guilford County.....	Mar. 1-Aug. 31....	69		
Halifax County.....	Mar. 1-31.....	40		
Haywood County.....	July 1-Aug. 31....	10		
Henderson County.....	May 1-June 30....	6		
Hertford County.....	Mar. 1-31.....	1		
Iredell County.....	June 1-July 31....	26		Several cases in May.
Johnson County.....	Apr. 1-May 31....	4		Several cases in March.
Jones County.....	Mar. 1-31.....	1		
Lee County.....	Mar. 1-June 30....	6		
Lenoir County.....	Mar. 1-June 30....	19		
Lincoln County.....	Mar. 1-July 31....	4		
Madison County.....	Apr. 1-30.....	5		
Martin County.....	Apr. 1-July 31....	5		
Mecklenburg County.....	Mar. 1-Aug. 31....	36		
Mitchell County.....	Aug. 1-31.....			Few.
Montgomery County.....	Mar. 1-Aug. 31....	54		
Nash County.....	Mar. 1-Aug. 31....	56		
New Hanover County.....	Mar. 1-Aug. 31....	48		
Onslow County.....	Mar. 1-May 31....	5		
Orange County.....	Mar. 1-July 31....	51		
Pamlico County.....	Mar. 1-Aug. 31....	6		
Pender County.....	Aug. 1-31.....	7		
Perquimans County.....	May 1-31.....	1		
Person County.....	May 1-July 31....	7		
Pitt County.....	Mar. 1-Aug. 31....	33		
Polk County.....	Mar. 1-31.....	7		
Richmond County.....	Apr. 1-30.....	2		
Robeson County.....	Apr. 1-Aug. 31....	30		
Rockingham County.....	Mar. 1-31.....	48		
Rowan County.....	Mar. 1-July 31....	45	1	
Sampson County.....	May 1-Aug. 31....	3		
Scotland County.....	May 1-31.....	5		
Stanly County.....	Apr. 1-July 31....	35		
Stokes County.....	Mar. 1-31.....	64		
Surry County.....	Mar. 1-31.....	4		
Union County.....	Mar. 1-Aug. 31....	37		
Vance County.....	Apr. 1-30.....	4		
Wake County.....	Apr. 1-May 31....	22		
Warren County.....	Apr. 1-Aug. 31....	28		
Washington County.....	Mar. 1-Apr. 30....	4		
Watauga County.....	Apr. 1-Aug. 31....	36		
Wayne County.....	Apr. 1-May 31....	6		Few cases in June.
Wilkes County.....	Mar. 1-July 31....	39		
Wilson County.....	Mar. 1-June 30....	25	1	
Yancey County.....	Mar. 1-31.....	26		
Total for State.....		1,420	7	
<b>North Dakota:</b>				
Bowman County.....	Aug. 1-31.....	37		
Cass County.....	June 1-July 31....	3		
Cavalier County.....	June 1-30.....	1		
Grand Forks County.....	June 1-10.....	4		
Logan County.....	June 1-30.....	1		
McKenzie County.....	June 1-30.....	1		
Morton County.....	July 1-31.....	4		
Pierce County.....	June 1-30.....	1		
Stark County.....	July 1-31.....	1		
Stutsman County.....	Aug. 1-31.....	1		
Traill County.....	June 1-30.....	6		
Ward County.....	June 1-30.....	4		
Total for State.....		64		

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma, general.....	Jan. 1-31.....	.....	1	Reported out of date.
Canadian County.....	Apr. 1-30.....	.....	1	
Comanche County.....	Apr. 1-30.....	.....	3	
Oklahoma County.....	Apr. 1-30.....	.....	4	
Pottawatomie County.....	Apr. 1-30.....	.....	2	
Atoka County.....	May 1-31.....	20	.....	
Beckham County.....	May 1-31.....	2	.....	
Blaine County.....	May 1-31.....	8	.....	
Caddo County.....	May 1-31.....	1	.....	
Canadian County.....	May 1-31.....	17	.....	
Choctaw County.....	May 1-31.....	1	.....	
Coal County.....	May 1-31.....	5	.....	
Comanche County.....	May 1-31.....	4	1	
Custer County.....	May 1-31.....	9	.....	
Garvin County.....	May 1-31.....	1	.....	
Grady County.....	Apr. 1-30.....	.....	1	
Grady County.....	May 1-31.....	6	6	
Haskell County.....	May 1-31.....	7	.....	
Hughes County.....	May 1-31.....	42	.....	
Jefferson County.....	May 1-31.....	3	.....	
Kiowa County.....	May 1-31.....	1	.....	
Lincoln County.....	May 1-31.....	4	.....	
McLain County.....	May 1-31.....	9	.....	
McIntosh County.....	May 1-31.....	11	.....	
Murray County.....	May 1-31.....	1	.....	
Muskogee County.....	May 1-31.....	5	.....	
Noble County.....	May 1-31.....	8	.....	
Nowata County.....	May 1-31.....	3	.....	
Okfuskee County.....	May 1-31.....	1	.....	
Oklahoma County.....	May 1-31.....	1	1	
Oklmulgee County.....	May 1-31.....	2	.....	
Pawnee County.....	May 1-31.....	4	.....	
Payne County.....	May 1-31.....	10	.....	
Pittsburg County.....	May 1-31.....	6	1	
Pontotoc County.....	May 1-31.....	12	.....	
Seminole County.....	May 1-31.....	2	.....	
Texas County.....	May 1-31.....	4	.....	
Tillman County.....	May 1-31.....	2	.....	
Tulsa County.....	May 1-31.....	1	1	
Washita County.....	May 1-31.....	1	.....	
Total for State.....	.....	214	22	
Ohio:				
Allen County.....	June 1-30.....	3	.....	
Athens County.....	July 1-31.....	1	.....	
Butler County.....	June 1-July 31.....	4	.....	
Clarke County.....	July 1-31.....	3	.....	
Clinton County.....	June 1-30.....	10	.....	
Columbiana County.....	June 1-July 31.....	6	.....	
Cuyahoga County.....	June 1-July 31.....	16	1	
Fairfield County.....	June 1-30.....	1	.....	
Franklin County.....	June 1-Sept. 30.....	12	.....	
Hamilton County.....	June 1-Sept. 30.....	2	.....	
Hancock County.....	July 1-31.....	4	.....	
Hocking County.....	June 1-July 31.....	26	.....	
Jackson County.....	Sept. 1-30.....	3	.....	
Jefferson County.....	July 1-31.....	1	.....	
Lucas County.....	June 1-Sept. 30.....	8	.....	
Mahoning County.....	July 1-31.....	1	.....	
Marion County.....	July 1-31.....	1	.....	
Perry County.....	June 1-30.....	1	.....	
Pickaway County.....	June 1-30.....	1	.....	
Portage County.....	June 1-30.....	7	.....	
Ross County.....	June 1-Sept. 30.....	74	.....	
Seneca County.....	July 1-31.....	1	.....	
Scioto County.....	June 1-30.....	2	.....	
Stark County.....	June 1-July 31.....	29	.....	
Summit County.....	July 1-31.....	5	.....	
Wayne County.....	June 1-30.....	2	.....	
Wood County.....	June 1-30.....	2	.....	
Total for State.....	.....	226	1	
Oregon:				
Baker County.....	May 1-31.....	1	.....	
Benton County.....	May 1-31.....	2	.....	
Linn County.....	June 1-30.....	2	.....	
Multnomah County.....	Apr. 1-May 31.....	10	.....	
Umatilla County.....	May 1-31.....	1	.....	
Union County.....	May 1-31.....	2	.....	

## SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to October 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oregon—Continued.				
Wasco County.....	Apr. 1-30.....	2		
Washington County.....	Apr. 1-June 30.....	3		
Yamhill County.....	Apr. 1-June 30.....	15		
Total for State.....		38		
Pennsylvania, general.....	Apr. 1-30.....		2	
	May 1-Aug. 31.....	56	4	
Total for State.....		56	6	
South Carolina:				
Charleston.....	June 1-July 31.....	28		
Total for State.....		28		
Tennessee:				
Benton County—				
Camden.....	July 1-7.....	2		
Davidson County—				
Nashville.....	June 12-July 9.....	2		
Hamilton County—				
Chattanooga.....	June 12-July 16.....	4		
Knox County—				
Knoxville.....	June 12-July 16.....	8		
Shelby County.....	May 1-June 30.....	39		
Memphis.....	June 12-July 19.....	8		
Total for State.....		63		
Texas, general.....	Apr. 1-July 31.....	881	27	
Total for State.....		881	27	
Utah, general.....	Mar. 1-31.....	112		Report received out of date.
Boxelder County.....	May 1-31.....	1		
Cache County.....	May 1-31.....	6		
Davis County.....	May 1-July 31.....	43		
Juab County.....	June 1-July 31.....	3		
Salt Lake County.....	May 1-Aug. 31.....	34	1	
Utah County.....	May 1-Aug. 31.....	10		
Wasatch County.....	Aug. 1-31.....	1		
Weber County.....	May 1-July 31.....	25		
Total for State.....		235	1	
Virginia:				One case from the schooner Persis A. Colwell, from Gaspe, Quebec.
Alexandria.....	Aug. 25.....			
Lynchburg.....	June 12-18.....	1		
Total for State.....		1		
Washington, general.....	Feb. 1-Mar. 31.....		4	
Wisconsin:				
Ashland County.....	June 1-Aug. 31.....	17		
Barron County.....	June 1-30.....	1		
Brown County.....	July 1-31.....	5		
Douglas County.....	June 1-July 31.....	3		
Dunn County.....	July 1-31.....	1		
Eau Claire County.....	June 1-July 31.....	4		
Florence County.....	June 1-30.....	4		
Fond du Lac County.....	July 1-31.....	1		
Kenosha County.....	July 1-31.....	1		
Lafayette County.....	June 1-30.....	1		
La Crosse County.....	June 1-30.....	2		
Milwaukee County.....	July 1-Aug. 31.....	13		
Pierce County.....	July 1-31.....	1		
Polk County.....	July 1-Aug. 31.....	6		
Rush County.....	June 1-30.....	1		
St. Croix County.....	July 1-31.....	5		
Sawyer County.....	June 1-30.....	8		
Waupaca County.....	June 1-Aug. 31.....	4		
Winnebago County.....	July 1-31.....	1		
Total for State.....		79		
Grand total for the United States.....		5,871	92	

## CHOLERA IN THE UNITED STATES.

Place.	Date.	Cases.	Deaths.	Remarks.
New York: New York.....	Sept. 26-29.....	1	1	Case in immigrant removed at quarantine from s. s. Germania from Marseille and Naples.

## PLAGUE IN THE UNITED STATES.

**Reports Received from June 25 to October 14, 1910.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>California:</b>				
San Benito County—				
Hollister.....	June 5-11.....	1	1	
Santa Clara County—				
San Jose.....	Sept. 5.....	1	.....	

### MORBIDITY AND MORTALITY.

**WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.**

[For smallpox and plague see special tables.]

[illegible]



## MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping-cough.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Gloucester, Mass.	Sept. 17	4												
Hartford, Conn.	do.	32		3	12		4		2	1				
Johnstown, Pa.	do.	22			7				4	1			1	
Kansas City, Mo.	July 2	67	1	8	1	1	4	1			5			
Do.	July 9	82	1	7	2								3	
Do.	July 16	77	1	1	7	1	5		6	1	3	1	3	
Do.	July 23	89	3	9	13	2	1							
Do.	July 30	97	2	7	10	2	5	2	4	1	3			
Do.	Aug. 6		3	5	8	3	6		1	1	2		1	
Do.	Aug. 13		3	10	4	1	2		2		2		1	
Do.	Aug. 20		1	5	8	1	2	1	5		1		1	
Do.	Aug. 27			4	9	1	2		5	1	3			
Do.	Sept. 3		2	6	10		6						1	
Do.	Sept. 10	76	1	7	9	4	4		4					
Do.	Sept. 17	79			2	1	3		2					
Kingston, N. Y.	Sept. 10	8		1					1		1			
Do.	Sept. 17	16		2					1					
Knoxville, Tenn.	do.	12	1	3			1	1					1	
Kokomo, Ind.	Sept. 3	8	2	4										
Do.	Sept. 10	9		1	5	1	2							
Do.	Sept. 17	7			2	2			1	1				
Haverhill, Mass.	do.	7		1	2				2					
Hoboken, N. J.	do.		1		1		1			1				
Hyde Park, Mass.	do.	6	1	1	1		1		2	1				
La Crosse, Wis.	do.	7			4		1	1						
Lebanon, Pa.	do.	5			1				5	2				
Los Angeles, Cal.	do.	84	18	18	7	1	4	1			2		16	
Lowell, Mass.	do.	36		2	41	1	2		2					
Lynchburg, Va.	do.								3					
Lynn, Mass.	Sept. 10	23	3	1	5	1					2		3	
Do.	Sept. 17	27	2	2	4		1		3	1				
Malden, Mass.	Sept. 10	9	2		1				2	1				
Do.	Sept. 17	13	1	1	4		3				1		5	
Manistee, Mich.	Sept. 10				4									
Do.	Sept. 17	1									1		5	
Manitowoc, Wis.	Sept. 3	2											4	
Do.	Sept. 10	3	1	1					1					
Do.	Sept. 17	3												
Marlboro, Mass.	Sept. 10	2		1	1									
Do.	Sept. 17	3		1										
Medford, Mass.	do.	1		1									1	
Nashville, Tenn.	do.	45	3	4	11	3	2		1					
New Bedford, Mass.	do.	28	6	2	12	1	3		2					
Newburyport, Mass.	do.	1												
New Orleans, La.	do.	95	18	18	13	2	7		10		2			
New York, N. Y.	do.	1,250	617	148	162	12	76	2	141	8	64	6	58	3
Oakland, Cal.	Sept. 3	37	3	2					4					
Do.	Sept. 10	34	2	3					5		1			
Do.	Sept. 17	36		3					1					
Oklahoma City, Okla.	Aug. 6	21	2	2	25	6	5		1					
Do.	Aug. 13	15	1	1	16	4	3							
Do.	Aug. 20	25			31	1	2	2						
Do.	Aug. 27	18			18	1								
Philadelphia, Pa.	Sept. 17		109	45	55	9	14		56	5	7	12	21	4
Pittsburg, Pa.	Aug. 20	182	25	14	21	4	6		13	1	18	3	26	3
Do.	Aug. 27	166	18	9	23	2	15	1	11	2	7	1	25	5
Do.	Sept. 3	160	35	8	28	5	14	3	17	2	6		19	2
Do.	Sept. 10	147	35	12	30	4	9	1	13	4	6		19	1
Do.	Sept. 17	157	30	18	50	1	12	2	30	3	4	1	30	2
Pittsfield, Mass.	do.	10	1	1	3		1		1					
Racine, Wis.	Sept. 10	15												
Sacramento, Cal.	Sept. 17	13							3					
Salt Lake City, Utah	do.	12		1	18		3	1	5	1			1	
San Francisco, Cal.	Sept. 10	77	7	5	3		3		5	1	9		3	
Do.	Sept. 17	135	31	13	10	1	5		4		20	1	6	
Saratoga Springs, N. Y.	Sept. 3	3			1									
Do.	Sept. 10	7		2										
Schenectady, N. Y.	do.	22	2	3	3				3				4	
Seattle, Wash.	do.	63	9	12	11	1			3		4		7	
Do.	Sept. 17	52	4	1	14		2		3		4		7	2
Somerville, Mass.	do.	18	8	1	4		1		2					
South Bend, Ind.	Sept. 10	21	3	1	1		2		2					



## MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Spokane, Wash.....	Sept. 3	23	1	1	16	1	5	...	1	...	2	...	...	...
Do.....	Sept. 10	26	1	3	10	...	4	...	2	...	1	...	...	...
Do.....	Sept. 17	25	...	...	6	1	6	...	3	1	1	...	...	...
Springfield, Mass.....	do.....	23	3	2	1	...	1	...	8	...	...	...	1	...
Steelton, Pa.....	do.....	4	2	...	...	...	2	1	6	1	...	...	...	...
Superior, Wis.....	do.....	9	...	...	...	1	2	...	2	...	...	...	...	...
Toledo, Ohio.....	do.....	38	1	3	4	1	3	...	5	1	1	...	...	...
Trenton, N. J.....	do.....	2	2	9	...	...	1	...	2	...	...	...	...	...
Waltham, Mass.....	do.....	7	1	1	2	...	...	...	1	...	...	...	...	...
Washington, D. C.....	Sept. 10	19	21	33	4	...	2	...	3	...	2	...	17	1
Do.....	Sept. 17	111	28	14	18	3	1	...	8	1	...	...	7	...
Weymouth, Mass.....	do.....	3	...	...	...	...	...	...	...	...	...	...	...	...
Wheeling, W. Va.....	do.....	11	1	3	4	1	...	...	2	...	...	...	...	...
Wilksburg, Pa.....	do.....	2	...	...	1	...	...	...	...	...	...	...	...	...
Wilmington, Del.....	do.....	21	...	1	...	2	...	...	...	...	...	...	...	1
Woburn, Mass.....	Sept. 3	8	...	...	...	...	...	...	...	...	...	...	...	...
Do.....	Sept. 10	6	...	...	...	...	8	...	2	...	1	...	...	...
Do.....	Sept. 17	4	...	...	...	...	...	...	...	1	...	...	...	1
Yonkers, N. Y.....	do.....	19	1	...	1	...	1	...	15	...	1	...	...	...
York, Pa.....	do.....	3	...	...	9	...	...	...	11	2	...	...	...	...

## STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES (untabulated).

COLORADO—*Colorado Springs*.—Month of July, 1910. Population, 539,700. Total number of deaths from all causes, 46, including typhoid fever 1, tuberculosis, 15. Cases reported: Typhoid fever 8, measles 3, scarlet fever 7, diphtheria 3.

Month of August, 1910. Total number of deaths 54, including scarlet fever 1, diphtheria 1, tuberculosis 34. Cases reported: Typhoid fever 9, measles 2, scarlet fever 100, diphtheria 3.

FLORIDA.—Week ended October 8, 1910. Reports from the State board of health show typhoid fever present in 2 localities (Tampa and Port Tampa City) with 2 cases, diphtheria in 1 locality with 2 cases, malaria in 5 localities with 16 cases, tuberculosis in 9 localities with 10 cases.

LOUISIANA—*Shreveport*.—Month of September, 1910. Population, 30,000. Total number of deaths from all causes 72 (resident 41, nonresident 31), including typhoid fever 6, diphtheria 1, tuberculosis 9 (resident 4, nonresident 5).

MICHIGAN.—Month of August, 1910. Population, 2,668,308. Total number of deaths from all causes, 3,587, including typhoid fever 60, measles 10, scarlet fever 6, diphtheria 34, tuberculosis 211. Cases reported: Typhoid fever 414 in 152 localities, smallpox 70 in 29 localities, measles 195 in 39 localities, scarlet fever 188 in 44 localities, diphtheria 222 in 64 localities, tuberculosis 100 cases.

MINNESOTA.—Month of July, 1910. Population, 1,751,395. Total number of deaths from all causes 1,574, including typhoid fever 21, measles 13, scarlet fever 19, diphtheria 40, tuberculosis 183.

NEW YORK—*Rochester*.—Month of August, 1910. Population, 118,000. Total number of deaths from all causes 275, including typhoid fever 2, scarlet fever 1, diphtheria 1, tuberculosis 14. Cases reported: Typhoid fever 29, measles 11, scarlet fever 28, diphtheria 13.

OKLAHOMA.—Month of August, 1910. Population, 1,681,584. Total number of deaths from all causes 690, including typhoid fever 72, smallpox 3, scarlet fever 13, diphtheria 8, tuberculosis 34. Cases reported: Typhoid fever 629, smallpox 51, scarlet fever 31, diphtheria 29, tuberculosis 77.

SOUTH CAROLINA—*Charleston*.—Month of September, 1910. Population, 57,593. Total number of deaths from all causes 105, including typhoid fever 5, leprosy 2, tuberculosis 9. Cases reported: Typhoid fever 25, diphtheria 3.

TEXAS—*Fort Worth*.—Month of September, 1910. Population, 60,000. Total number of deaths from all causes 78. Cases reported: Typhoid fever 7, measles 1, tuberculosis 7.

## FOREIGN AND INSULAR.

### MEASURES TO PREVENT THE INTRODUCTION OF CHOLERA INTO THE UNITED STATES.

#### LIBAU AND ODESSA.

It having been recently reported that agents of certain steamship lines have been circularizing Russia advising emigrants to ship to the United States via Libau on the Baltic, or Odessa on the Black Sea, to avoid the restraints at the German ports, the following telegram was sent on October 15, 1910, to the American consul at Odessa by the Department of State:

Rigidly observe paragraphs 30, 31, and 32, Quarantine Regulations, 1903. In addition rigidly exclude from persons and luggage of emigrants all articles of food. Report by cable whether increased emigration to the United States is occurring at Odessa; whether emigrants are shipping direct to the United States or via other ports. If via other ports, name of ports.

The service officer at Libau, who for the past two years has been enforcing the regulations referred to, has been warned of the possible increase of emigration from his port.

#### BREMEN.

In a report dated September 23, 1910, Surgeon Carter states that as a port of emigration for the United States, Bremen is the most important in Germany. The emigration from Bremen in the calendar year 1909 was 144,417 emigrants, while from Hamburg it was 113,535. Of the number stated as passing through Bremen, 34,299 were from Russia where cholera now prevails.

The emigrants come to Bremen direct from the control stations on the German frontier, the Russians in separate coaches. After inspection by the Bremen health officer the Russians are placed in barracks for the emigrants from noninfected districts. In the barracks they are under the sanitary control of the Bremen health office and are inspected daily by their physicians. The inspections are carefully made, the temperatures taken before inspection, and all emigrants in whom the temperatures are above normal are especially examined for the cause of the rise in temperature, and are usually sent to the hospital where it is said bacteriological examination of stools is made for the determination of the presence therein of the cholera vibrios.

On the afternoon and evening before sailing a final examination is made of the emigrants by the consul and the steamship officials. The consul or his deputy is present and a physician attached to the

consulate acts as one of the examining physicians, of whom there are three. These physicians advise the consul as to the sanitary condition of the intending passengers. At this inspection all emigrants are vaccinated. This inspection has been hitherto made in the interests of the Emigration Service for the detection of such diseases as trachoma, and for the purpose of vaccinating all steerage passengers. In the future the emigrants from the cholera-infected districts will be inspected by themselves, and will be given an especially careful physical examination.

To reach the port of Bremen from the German control station requires approximately 24 hours of traveling time; thus about 4 days' detention takes place in Bremen in addition to the detention in the German control stations. Owing to the fact that vessels sail for the various American ports, such as New York, Philadelphia, Boston, and Galveston, on different sailing days, many of these emigrants, over one-half, remain in Bremen longer than 4 days. The vessel usually sails from Bremerhaven so early in the morning that the examination must necessarily take place the afternoon or evening before, partly by artificial light, but the light is ample for this purpose.

A representative of the consular office, or the consul himself, is present at the hour of the sailing of the vessel both at Bremen and Bremerhaven, where the bill of health is rendered, and official cognizance taken of anything requiring action at the last moment.

That paragraph of the United States Quarantine Regulations requiring cabin passengers coming from cholera-infected districts embarking at a clean or an infected port to produce satisfactory evidence as to their exact place of abode during the 5 days immediately preceding embarkation is carried out at Bremen.

Immediately upon the arrival in Bremen of Russian emigrants, their baggage is examined by the health authorities to see if it is all certified as having been disinfected at the German control station immediately prior to the last inspection on the eve of sailing. An inspection of baggage is also made by the steamship company, and all of the dirty clothing and any baggage of Russians found without labels is now disinfected before being placed aboard the vessel.

Surgeon Carter states that he is satisfied that the system of cards and records in use for practical purposes precludes the substitution of one person for another.

At this last inspection a comparison is made of the emigrant's ship's ticket with his control-station ticket and the other papers carried by him to determine if he has been under observation the required time.

#### CATANIA AND MESSINA.

Upon receipt of the information that emigration would be resumed at Messina before the end of October, a medical officer was placed on duty in connection with the enforcement at Catania and Messina of the Treasury Department regulations regarding emigrants. The consular officer at Catania was instructed by the Department of State to observe carefully the conditions at Catania, and if necessary enforce the Treasury regulations. He was also instructed to cable the name and date of departure of every vessel bound for United States ports, the number of passengers, and the ports to be touched at en route.

**AUSTRIA-HUNGARY.****Cholera.**

Consul Slocum, at Fiume, reported, September 22 and 23, to the Department of State:

Cholera is officially reported present in Hungary in the cities of Budapest, Pressburg, Neusatz, and Kalocsa, on the Danube, and in 24 villages in 7 counties. Emigration from the infected districts has been prohibited. Emigrants who have already left the cholera-infected districts will be held in quarantine at Fiume five days and their effects will be disinfected.

On September 26 Consul Slocum further reported cholera present in 22 additional localities and 13 additional counties.

Minister Kerens, at Vienna, reported, September 30, to the Department of State:

During the week ended September 24, 49 cases of cholera with 23 deaths were reported in 10 counties in Hungary.

On September 29 Consul Slocum further reported 7 additional localities and 1 additional county in Hungary to be cholera infected.

**CUBA.****Transmissible Diseases in the Republic.**

Passed Assistant Surgeon de Valin at Habana reports, October 12:

The national department of sanitation gives the following statement of transmissible diseases in the Republic:

SEPTEMBER 1-10, 1910.

	New cases.	Deaths.	Cases under treatment.
Tuberculosis.....	30	68	2,894
Leprosy.....			348
Malaria.....	60	8	178
Typhoid fever.....	22	8	71
Diphtheria.....	21	4	15
Scarlet fever.....	7	1	7
Measles.....	29	2	52
Varicela.....	4		10
Tetanus in the new-born.....	9	8	1
Filariasis.....			1
Dengue.....			2

**GERMANY.****Cholera.**

Minister Hill at Berlin reported, September 23, to the Department of State:

On September 9 a case of cholera occurred at Freiburg in the person of a boatman, and on September 13 a second case occurred in a son of the first patient.

On September 13 and 19, 3 cases of cholera occurred at Marienburg, west Prussia, the patients being a messenger boy and 2 small children. One case ended fatally. The necessary measures of isolation and disinfection have been taken to prevent spread of the disease.

## INDIA.

## CALCUTTA—Cholera and Plague.

Acting Assistant Surgeon Allan reports, September 15:

During the week ended August 27, there were reported 9 deaths from cholera and 10 from plague in Calcutta; in all Bengal, 34 cases of plague, with 33 deaths; in all India, 2,001 cases of plague, with 1,325 deaths.

## ITALY.

## Status of Cholera.

Surgeon Geddings at Naples reports, October 3:

During the week ended October 1 cholera was reported in Italy as follows:

	Cases.	Deaths.
Province of Bari:		
Andria.....	1	1
Molfetta.....	7	1
Ruvo.....	1	
Terlizzi.....	1	
Total.....	10	2
Province of Foggia:		
Cerignola.....	1	1
Trinitapoli.....	2	2
Total.....	3	3

In addition there were officially declared in the Province of Salerno and the town of Auletta, 1 case and 1 death; in the province of Caserta and town of Acerra, 2 cases; in the Province and city of Rome, 5 cases; in the Province of Sicily and city of Palermo, 4 cases; and in the same province and in the town of Monreale, 1 case.

## SITUATION IN NAPLES.

As was reported on September 25, the sanitary authorities then officially declared for the first time the existence of cholera in Naples, giving one case as occurring on that date, but on that day there were reported in the Neapolitan press, 67 cases and 49 deaths from "gastro-enteritis." Since that date the cases and deaths as reported by the press, but not as yet officially declared by the minister of the interior, are as follows:

	Cases.	Deaths.
September 24-25.....	67	49
September 25-26.....	37	28
September 26-27.....	31	21
September 27-28.....	25	16
September 28-29.....	19	10
September 29-30.....	17	5
September 30-October 1.....	11	4
Total.....	207	133

It is also worthy of comment that since the date of the official declaration the nomenclature "gastro-enteritis" has disappeared from the reports.



In addition to the official declaration of the infection of the city of Naples the following cases and deaths have been reported officially in the Province:

San Giovanni, 3 cases; Torre del Greco, 1 case; Casoria, 1 case; Cardito, 1 case; Caivano, 1 case; Santantimo, 1 case; Castellamare del Stabia, 2 cases; Secondigliano, 3 cases; Barra, 5 cases and 3 deaths; Resina, 3 cases and 2 deaths; a total for the Province of 21 cases and 5 deaths.

In so far as the condition in the city of Naples is concerned, it may be said that the situation is improved. The official declaration of cholera has relieved the state of suspense which had taken possession of the public mind, and several important edicts have been issued and seem to be reasonably well enforced prohibiting the sale of oysters, mussels, and other articles of sea food, and the sale upon the streets of green, unripe, or spoiled fruit. More care is also being taken in matters of diet by all classes, certain low classes of inns and cafés on certain fête days during October, which are great popular festivals, having been ordered to close early in the afternoon.

The condition of the water of the harbor, previously reported infected, has for the last three days been found free from cholera vibrios. The water supply of the city continues in a satisfactory condition as to quantity and quality and no cases of cholera have occurred in vessels in the harbor since September 25. There has been interruption of the schedules of ships destined for the United States; but it is announced that the regular course of emigration will be resumed on October 7 under precautions already detailed, and it is expected that by that time the arrangements made for the movement of merchandise will have been so perfected that there will be a minimum of delay or restriction. Until a normal condition of public health is restored the ships will anchor in the open roadstead, and there will be a minimum of intercourse with the shore, and this will be under strict official supervision.

I am receiving every assistance and support from the Italian emigration authorities and from the medical officers of the Royal Italian Navy who have been detailed to assist the commissioner during this crisis. To commissioner of emigration, Cavaliere A. d'Ayello; to Capitano Medico G. Sacconi and Teniente Medico S. Muso, of the quarantine ship *Marsala*; to Maggiore Medico Professor Belli and Capitano Medico d'Accurso, of the receiving and detention ship *Lazio*; and Maggiore Medico Monaco and Capitano Medico Battaglia, of the detention building, I am indebted for many acts of kindness, cooperation, and courtesy.

Doctor Geddings further reported, October 15:

Naples, October 11 and 12, 17 cases of cholera with 12 deaths; rest of Italy, 52 cases with 22 deaths.

Doctor Geddings further reported:

Naples, October 13 to 16, 36 cases of cholera with 17 deaths; rest of Italy, 91 cases with 26 deaths.

#### JAPAN.

##### KOBE—Cholera—Examination of Rats.

Acting Assistant Surgeon Moore reports, September 15, 20, and 21:

A case of cholera was reported in Kobe September 12. The case was found on a lighter at the water front. The lighter was disinfected and the contacts were isolated.

During the week ended September 17 there were reported 10 cases of cholera with 9 deaths at Kobe, and at Osaka, 20 miles distant from Kobe, 9 cases with 7 deaths.

During the week ended September 21, 33 cases of cholera with 17 deaths were reported at Kobe. The municipal authorities are of the opinion that the infection was brought to Kobe from Dalny, Manchuria, by the steamship *Amakusa Maru*, as a large proportion of those stricken with the disease assisted in unloading that ship.

The shipping agents here are cooperating with me in every way to prevent infection being conveyed on board of ships in the harbor.

All lighters engaged in loading ships have been carefully cleaned and disinfected under the supervision of this office. Any lighter appearing with cargo alongside ships destined for American ports without bearing the stamp of this service on the certificate of disinfection, securely sealed and affixed to the lighter, is turned away and not allowed to put cargo on board.

No foodstuffs, water, or ballast will be taken on shipboard at this port, and the communication with the shore will be reduced to a minimum by constant vigilance on the part of this office.

All intending steerage passengers for American ports are detained in quarantine, bathed, and disinfected, and their effects are disinfected by steam prior to embarkation.

A careful supervision of cargo manifests is maintained.

The Japanese authorities remove every case of cholera to the quarantine hospital as soon as one is found and all contacts are isolated.

During the month of July, 1910, 29,117 rats were examined for plague infection. One plague-infected rat was found. During the month of August, 1910, 26,041 rats were examined.

#### MEXICO.

##### Yellow Fever at Campeche.

The following information dated October 3 and 10 was received from the president of the superior board of health of Mexico:

Four cases of yellow fever were reported during the week ended October 1 at Campeche, 2 occurring September 25 and 2 September 30, with 2 deaths occurring, respectively, September 25 and 30. During the week ended October 8, 1 case of yellow fever and 1 death were reported, the death occurring October 3 and the case October 8.

#### PERU.

##### Status of Plague.

Acting Assistant Surgeon Castro Gutierrez reports, September 3 and 8:

Additional reports for the month of June, 1910, show 2 new cases of plague with 1 death in the department of Libertad.

On June 28 a plague case was reported at Callao in the person of a woman who resided in Callao but worked all day in an infected locality of Lima. On September 3 a second case of plague was reported in Callao. The case originated in Lima and the patient came from the farming country in the vicinity of Lima.

Bills of health from ports south of Callao show as follows: Mollendo, August 23, 1 case of plague in preceding 2 weeks; Iquique, Chile, August 21, 3 cases of plague in preceding 2 weeks; Valparaiso, Chile, August 17, from 40 to 60 cases of smallpox in preceding 2 weeks.



## PHILIPPINE ISLANDS.

## Manila—Cholera.

Chief Quarantine Officer Heiser reports, August 19 and 25 and September 2, 8, and 14:

Cholera was reported in the city of Manila as follows: Week ended August 13, 14 cases, 10 deaths; week ended August 20, 16 cases, 11 deaths; week ended August 27, 21 cases, 11 deaths; week ended September 3, 25 cases, 18 deaths; week ended September 10, 15 cases, 15 deaths.

The number of cases in the city of Manila is somewhat augmented over the number reported for previous weeks. Eight of the cases were directly traced to having been introduced from Bulacan Province by persons who were seeking work at Pandacan, a suburb of Manila.

## Cholera in the Provinces.

The total number of cases of cholera occurring in the provinces has been slowly declining, the average now per week being approximately 360, as compared with 550 several weeks ago. Most of the improvement took place in the provinces of Pangasinan, Pampanga, Tarlac, and Bulacan. There has been a steady increase in the number of cases of cholera reported in the province of Batangas, 226 being reported for the week covered by this report.

Cases and deaths were reported as follows:

## WEEK ENDED AUGUST 13.

Province.	Cases.	Deaths.	Province.	Cases.	Deaths.
Batangas.....	50	32	Rizal.....	20	18
Bulacan.....	41	28	Tarlac.....	32	24
Nueva Ecija.....	50	33	Total.....	402	317
Pampanga.....	14	14			
Pangasinan.....	195	168			

## WEEK ENDED AUGUST 20.

Batangas.....	128	74	Pangasinan.....	163	139
Bulacan.....	38	33	Rizal.....	20	11
Ilocos Sur.....	1	1	Tarlac.....	49	27
Mountain Province.....	1	1	Total.....	436	315
Nueva Ecija.....	25	19			
Pampanga.....	11	11			

## WEEK ENDED AUGUST 27.

Batangas.....	212	141	Pangasinan.....	58	45
Bulacan.....	10	6	Rizal.....	40	23
Ilocos Sur.....	19	18	Tarlac.....	25	20
Mindoro.....	3	2	Total.....	420	286
Nueva Ecija.....	49	27			
Pampanga.....	4	4			

## WEEK ENDED SEPTEMBER 3.

Batangas.....	226	146	Pangasinan.....	18	21
Bulacan.....	13	10	Rizal.....	35	23
Ilocos Sur.....	3	3	Tarlac.....	21	23
Nueva Ecija.....	27	17	Total.....	358	258
Pampanga.....	15	15			

## WEEK ENDED SEPTEMBER 10.

Province.	Cases.	Deaths.	Province.	Cases.	Deaths.
Albay.....	3	2	Pangasinan.....	19	19
Batangas.....	118	97	Rizal.....	13	12
Bulacan.....	9	8	Tarlac.....	10	11
Ilocos Sur.....	6	4	Total.....	206	172
Nueva Ecija.....	22	14			
Pampanga.....	6	5			

## RUSSIA.

## Status of Cholera.

Acting Assistant Surgeon De Forest at Libau reports, October 3:

During the week ended September 29, 183 cases of cholera with 66 deaths were reported in the city and suburbs of St. Petersburg. In all Russia, exclusive of St. Petersburg, there were reported during the same period 3,480 cases with 1,749 deaths. The total number of cases of cholera in all Russia from the outbreak of the epidemic to September 29 is 198,246; deaths, 92,329.

## LIBAU—Smallpox—Examination of Emigrants.

Doctor De Forest further reports:

During the week ended September 18, 1 case of smallpox was reported in Libau. At the close of the week there were 2 cases present.

The steamship *Estonia* sailed from Libau September 28 with 881 passengers and a crew of 102, all of whom had been in Libau for the full 5 days under observation. All passengers and members of crew were vaccinated previous to embarkation. No foodstuff is allowed to be taken on board by passengers. All hand baggage is inspected before embarkation.

A quarantine station has been erected at Kronstadt for inspection of incoming vessels, especially those arriving from Odessa.

## ODESSA—Cholera and Plague.

Consul Grout reports, September 26:

During the week ended September 23, 15 cases of cholera with 11 deaths were reported. At the close of the week there were 15 cases in hospital.

From the outbreak of epidemic plague to September 23, 113 cases with 29 deaths were reported.

## Measures Against Plague.

Minister Rockhill, at St. Petersburg, reported, September 28, to the Department of State:

The measures which have been taken to fight plague in Odessa are as follows:

The city has been divided into 72 wards, with one doctor for each ward and six or seven sanitary guardians, whose duty it is to discover suspicious cases of plague or of cholera by visiting the dwellings in the different wards as often as possible and by questioning the inhabitants. Each case is reported to the special board, which gives

orders for the necessary measures to be taken. All the medical forces are at the disposal of this board, including the hospital service and the service in isolation districts, the disinfection detachments, and the rat destroyers; also the detachment in charge of the sanitary maintenance of the dwellings situated in the neighborhood of the epidemic.

All the ships, without exception, at Odessa are cleared of rats, and passengers as well as the crews are submitted to a medical examination. Passenger steamships have their own doctors, isolation places, medicines, and disinfectants. These ships are inspected by doctors at the ports where they land before any communication is allowed with the shore.

At the railway station of Odessa every train is visited by a doctor before leaving. The goods specified in the regulations are not conveyed, and all the warehouses and other places within the railway station are cleared of rats.

On August 24 it was decided that owing to the continued presence of plague in Odessa Musselman pilgrims coming to Odessa should not be allowed communication with the town, but should be lodged in special buildings under medical supervision. From August 13 to 24, 17 fatal cases of plague, clinically diagnosed as pneumonic, were reported in 2 villages in the territory of Semiretschensk, in Russian Turkestan, and in the Djambeitin district, from August 23 to 27, 7 cases of plague with 3 deaths; the diagnosis was bacteriologically verified. The usual measures have been taken in the Semiretschensk and Oural territories to combat the disease.

#### SERVIA.

#### BELGRADE—Cholera.

The American consul reported October 12 to the Department of State the presence of cholera in the consular district of Belgrade.

#### URUGUAY.

#### Precautions Against Importation of Cholera.

The following regulations issued by the Uruguayan national hygienic council were forwarded to the Department of State by the American minister September 8:

In view of the outbreak and spread of Asiatic cholera in certain parts of southern Italy, the national council of hygiene, being so authorized, resolves that—

Ships which have left Mediterranean and Adriatic ports since August 13 will be subject to the following quarantine treatment:

ARTICLE 1. Uninfected ships carrying a sanitary inspector: Free pratique after sanitary visit, ocular inspection of passengers, disinfection of clothing.

ART. 2. Uninfected ships not having a sanitary inspector:

(a) Rigorous sanitary visit and medical examination of passengers.

(b) Disinfection of clothing and cabin luggage.

(c) Landing of such first and second class passengers as promise to reside within a fixed radius (to be determined by the sanitary authorities), where they can be watched during 5 days, provided that the said passengers give sufficient guaranty that they will comply with these rules.

(d) Third-class passengers will be landed at the sanitary station, have their luggage disinfected, and be kept under observation for 5 days.

ART. 3. Infected ships carrying a sanitary inspector: }

Ships which either have cholera on board upon arrival, or have had it during the voyage, will be treated as follows:

(a) Ships will be subjected to a complete disinfection, such as: Renewing water supply, fumigation of tanks, closets, etc., as the authorities judge fit.

(b) Disembarkation of the sick for treatment at the quarantine station.  
 (c) If cholera appears previous to the last 5 days before reaching port, passengers will be treated under article 2.

(d) If the case or cases occur within the last 5 days before reaching port, the treatment will be as follows:

1. First and second class passengers: Fumigation of clothing and medical examination.

The authorities in charge shall decide whether or not passengers shall be allowed to disembark and remain under observation for 5 days, as provided in article 2, section c. Both the sanitary inspection department and that of public inspection shall agree as to what measures are desirable before each case is decided.

Third-class passengers:

2. Disembarkation at the quarantine station, fumigation of luggage, and observation for 5 days.

ART. 4. Infected ships not carrying a sanitary inspector:

Passengers by such boats shall be treated according to (c), article 3.

ART. 5. The sanitary authorities will give every passenger a health passport, to be presented to the authorized medical authorities whenever requested.

ART. 6. The radius mentioned in (c), article 2, shall be: On the west, the bay; on the east, Calle Sierra; on the south, Calle Juan D. Jackson; on the north, Calle Colombia.

ART. 7. The municipality has charge of watching the passengers, and will intrust it to the doctors of the public emergency service. These services are to be paid for, and the passengers will pay before landing.

ART. 8. First and second class passengers shall pay \$5 of the national currency for the medical observance services, without regard to the further guarantee which the sanitary authorities may require, as per (c), article 2.

ART. 9. An employee of the municipality shall be present at the sanitary visit to collect the fees.

ART. 10. The ships coming under the present ordinance shall go to the hospital at Flores Island for the quarantine visit and the disembarkation of third-class passengers, if such is necessary.

ART. 11. The fumigation of passengers' clothing will take place in the ovens on board ship, according to articles 1 and 2, and in the presence of representatives of the council.

ART. 12. The disinfection of ships ending their voyage at Montevideo shall take place after the unloading of all cargo and in the presence of two sanitary guards and a sanitary assistant.

ART. 13. Persons violating the sanitary regulations will be punished by 12 to 15 months' imprisonment (art. 2711, penal code).

ART. 14. Let this be published for public knowledge.

#### VENEZUELA.

#### PUERTO CABELLO—Yellow Fever.

The American consul reported October 12 to the Department of State that yellow fever had appeared.

### CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

#### Reports Received During Week Ended October 21, 1910.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other sources.]

#### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Austria-Hungary .....				
Budapest .....	Sept. 8-24 .....	6	1	Sept. 29, still present.
Kalocsa .....	Sept. 23 .....			Present.
Neusatz .....	Sept. 23 .....			Present.
Pressburg .....	Sept. 23 .....			Present.
China:				
Amoy .....	Aug. 28-Sept. 3 .....	1		
Germany:				
Freiburg .....	Sept. 9-13 .....	2		
Marienburg .....	Sept. 13-15 .....	3	1	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received During Week Ended October 21, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Sept. 12-21.....		9	
Madras.....	Sept. 3-9.....		6	
Italy, general.....	Oct. 11-16.....	143	48	Outside of Naples.
Naples.....	Oct. 11-16.....	53	29	
Rome, province and city.....	Sept. 25-Oct. 1.....	5		
Sicily, province—				
Monreale.....	Oct. 1.....	1		
Palermo.....	Oct. 1.....	4		
Japan:				
Kobe.....	Sept. 12-21.....	44	26	Sept. 12, first case from ss. Amakusa Maru.
Osaka.....	Sept. 11-17.....	9	7	
Java:				
Batavia.....	Sept. 3.....	15	9	
Manchuria:				
Dalny.....	Sept. 4-10.....	1		
Persia:				
Erzeroum, vilayet.....	Sept. 11-22.....	272	168	
Philippine Islands:				
Manila.....	Aug. 7-Sept. 10.....	91	65	
Mindoro.....	Aug. 21-27.....	3	2	
Provinces—				
Albay.....	Sept. 4-10.....	3	2	
Batangas.....	Aug. 7-Sept. 10.....	734	490	
Bulacan.....	Aug. 7-Sept. 10.....	111	85	
Ilocos Sur.....	Aug. 14-20.....	29	25	
Mountain.....	Aug. 14-20.....	1	1	
Nueva Ecija.....	Aug. 7-Sept. 10.....	173	110	
Pampanga.....	Aug. 7-Sept. 10.....	50	49	
Pangasinan.....	Aug. 7-Sept. 10.....	453	392	
Rizal.....	Aug. 7-Sept. 10.....	128	87	
Tarlac.....	Aug. 7-Sept. 10.....	137	105	
Russia, general.....	Aug. 28-Sept. 3.....	9,899	4,405	Sept. 25-30, cases 3,663, deaths 1,815.
City of St. Petersburg.....	Aug. 28-Sept. 3.....	429	168	
City of Cronstadt.....	Aug. 28-Sept. 3.....	24	11	
Governments				
St. Petersburg.....	Aug. 28-Sept. 3.....	62	37	
Vologda.....	Aug. 28-Sept. 3.....	57	24	
Novgorod.....	Aug. 28-Sept. 3.....	24	6	
Livonia.....	Aug. 28-Sept. 3.....	2	1	
Minsk.....	Aug. 28-Sept. 3.....	52	14	
Mogilev.....	Aug. 28-Sept. 3.....	17	4	
Vitebsk.....	Aug. 28-Sept. 3.....	6	7	
Smolensk.....	Aug. 28-Sept. 3.....	28	3	
Podolia.....	Aug. 28-Sept. 3.....	102	32	
Volhynia.....	Aug. 28-Sept. 3.....	2	1	
Kief.....	Aug. 28-Sept. 3.....	555	219	
Tchernigov.....	Aug. 28-Sept. 3.....	65	30	
Poltava.....	Aug. 28-Sept. 3.....	96	47	
Kharkov.....	Aug. 28-Sept. 3.....	48	18	
Koursk.....	Aug. 28-Sept. 3.....	287	152	
Orel.....	Aug. 28-Sept. 3.....	44	11	
Voronezh.....	Aug. 28-Sept. 3.....	484	244	
Tambov.....	Aug. 28-Sept. 3.....	425	205	
Rjasan.....	Aug. 28-Sept. 3.....	152	45	
Moscow.....	Aug. 28-Sept. 3.....	36	15	
Iaroslav.....	Aug. 28-Sept. 3.....	102	67	
Kostroma.....	Aug. 28-Sept. 3.....	176	73	
Nijni-Novgorod.....	Aug. 28-Sept. 3.....	147	72	
Kazan.....	Aug. 28-Sept. 3.....	161	89	
Simbirsk.....	Aug. 28-Sept. 3.....	222	116	
Samara.....	Aug. 28-Sept. 3.....	760	274	
Saratov.....	Aug. 28-Sept. 3.....	541	201	
Astrakhan.....	Aug. 28-Sept. 3.....	136	53	
Stavropol.....	Aug. 28-Sept. 3.....	91	46	
Perm.....	Aug. 28-Sept. 3.....	49	13	
Viatka.....	Aug. 28-Sept. 3.....	16	12	
Oufa.....	Aug. 28-Sept. 3.....	12	5	
Orenbourg.....	Aug. 28-Sept. 3.....	653	278	
Ekaterinoslav.....	Aug. 28-Sept. 3.....	508	326	
Tauride.....	Aug. 28-Sept. 3.....	83	34	
Bessarabia.....	Aug. 28-Sept. 3.....	18	12	
Kherson.....	Aug. 28-Sept. 3.....	524	205	
Black Sea.....	Aug. 28-Sept. 3.....	9	4	
Baku.....	Aug. 28-Sept. 3.....	39	38	
Tiflis.....	Aug. 28-Sept. 3.....	183	66	
Koutais.....	Aug. 28-Sept. 3.....	71	31	
Elisavetpol.....	Aug. 28-Sept. 3.....	12	9	
Erivan.....	Aug. 28-Sept. 3.....	127	82	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received During Week Ended October 21, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Russia—Continued.</b>				
<b>Governments—Continued.</b>				
Tomsk.....	Aug. 28-Sept. 3....	78	15	
Tobolsk.....	Aug. 28-Sept. 3....	50	18	
<b>Territory of—</b>				
Tourgai.....	Aug. 28-Sept. 3....	21	14	
The Oural.....	Aug. 28-Sept. 3....	43	15	
The Don.....	Aug. 28-Sept. 3....	568	314	
Kouban.....	Aug. 28-Sept. 3....	361	174	
Terek.....	Aug. 28-Sept. 3....	125	60	
Daghestan.....	Aug. 28-Sept. 3....	330	105	
Kars.....	Aug. 28-Sept. 3....	132	50	
Batum.....	Aug. 28-Sept. 3....	1	1	
Syr-Daria.....	Aug. 28-Sept. 3....	21	11	
Akmolinsk.....	Aug. 28-Sept. 3....	282	155	
<b>Prefecture of—</b>				
Kertchlenikale.....	Aug. 28-Sept. 3....	11	7	
Sebastopol.....	Aug. 28-Sept. 3....	5	1	
Rostow-on-Don.....	Aug. 28-Sept. 3....	25	5	
Odessa.....	Aug. 28-Sept. 3....	23	12	
Nikolaie.....	Aug. 28-Sept. 3....	20	11	
Baku.....	Aug. 28-Sept. 3....	100	37	
Warsaw.....	Sept. 22.....			Present.
<b>Servia:</b>				
Belgrade.....	Oct. 12.....			Present.
<b>Straits Settlements:</b>				
Singapore.....	Aug. 28-Sept. 3....	5	2	
<b>Turkey in Europe:</b>				
Constantinople.....	Sept. 26-Oct. 2....		20	
<b>Turkey in Asia:</b>				
Samsoun.....	Sept. 18-24.....	1		
Tizirk.....	Sept. 18-24.....	1		
Trebizond.....	Sept. 11-24.....	97	46	

## YELLOW FEVER.

<b>Mexico:</b>				
Campeche.....	Sept. 25-Oct. 8....	5	3	Including 3 cases previously reported.
<b>Venezuela:</b>				
Puerto Cabello.....	Oct. 12.....			Present.

## PLAGUE.

<b>India:</b>				
Bombay.....	Sept. 7-13.....		12	
Calcutta.....	Aug. 21-27.....		10	
<b>Peru:</b>				
Callao.....	Sept. 3.....	1		
<b>Russia:</b>				
Odessa.....	Sept. 20-26.....	7	1	

## SMALLPOX.

<b>Canada:</b>				
Kingston.....	Oct. 3.....			In vicinity.
Toronto.....	Sept. 11-17.....	1		
Victoria.....	Sept. 25-Oct. 1....	1		
<b>China:</b>				
Shanghai.....	Sept. 5-11.....		2	
<b>Egypt:</b>				
Alexandria.....	July 1-31.....		3	
	Aug. 1-31.....	1		
<b>India:</b>				
Bombay.....	Sept. 7-13.....		1	
Madras.....	Sept. 3-9.....		4	
<b>Russia:</b>				
Moscow.....	Sept. 11-17.....	3	1	
Warsaw.....	Aug. 1-6.....		7	
<b>Spain:</b>				
Vigo.....	Sept. 18-24.....		1	
<b>Straits Settlements:</b>				
Penang.....	Sept. 4-10.....	11	5	
Singapore.....	Aug. 28-Sept. 3....	13	5	



## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received from June 25 to October 14, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see PUBLIC HEALTH REPORTS for June 24, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Arabia:</b>				
Matrah.....	Sept. 29.....			Present.
<b>Austria-Hungary, general</b>	Sept. 17-24.....	28	14	
<b>Galicia—</b>				
Padwoloczyńska.....	June 20.....	1	1	From Russia.
Gonoyo.....	Sept. 3-6.....	1	1	
Mohacs.....	Aug. 25-Sept. 24.....	22	10	
Nagybajes.....	Sept. 7.....	1	1	
Pozsony.....	Aug. 24-30.....	1	1	From the steamer Rogensburg.
Vienna.....	Aug. 21-Sept. 17.....	7	2	
Vorosmarton.....	Aug. 19-30.....	1	1	
<b>China:</b>				
Amoy.....	July 17-Aug. 13.....	5	5	
Fatshan.....	July 1.....			Epidemic.
Hankow.....	Aug. 7-13.....	2	1	
Hongkong.....	July 10-16.....	9	6	Imported.
Swatow.....	May 10-June 6.....		254	In vicinity from 3,000 to 4,000 deaths.
<b>Colombo:</b>				
Ceylon.....	July 3-9.....	1		
<b>France:</b>				
Marseilles.....	Oct. 4.....	2	2	Among immigrants from Greece.
<b>Germany:</b>				
Kalthoff.....	Sept. 14.....	10	6	Suburb of Marienburg.
Ruhleben (near Berlin).....	June 23-27.....	2	2	Among Russian emigrants.
Spandau (near Berlin).....	Aug. 29.....	2	1	
<b>India:</b>				
Bombay.....	June 8-Sept. 6.....		27	
Calcutta.....	May 1-Aug. 20.....		463	
Kurrachee.....	July 24-30.....	1	1	
Madras.....	May 21-Aug. 26.....		23	
Moulmine.....	May 1-7.....	1	1	
Negatapam.....	Apr. 16-Aug. 12.....		199	
Rangoon.....	May 8-Aug. 20.....		15	
<b>Italy:</b>				
Naples.....	Oct. 2-10.....	85	28	Outside of Naples.
Rome.....	Sept. 25-Oct. 10.....	238	92	
Apulia, department.....	Sept. 27.....	4	1	
Province of Bari—				Sept. 17-Oct. 2: Provinces of Bari and Foggia, cases 71, deaths 33.
Andria.....	Aug. 17-Oct. 1.....	36	26	
Barletta.....	Aug. 17-Sept. 24.....	167	102	
Bisceglie.....	Aug. 17-20.....	2	2	
Bitonto.....	Aug. 17-Sept. 4.....	3	1	
Canosa.....	Aug. 17-Sept. 10.....	10	2	
Grumo Appula.....	Aug. 17-27.....	1		
Molfetta.....	Aug. 17-Oct. 1.....	70	27	
Ruvo.....	Aug. 17-Oct. 1.....	4	1	
Spinazzola.....	Aug. 17-Sept. 4.....	15	8	
Terlizzi.....	Oct. 1.....	1		
Trani.....	Aug. 17-Sept. 10.....	93	71	
Triggiano.....	Sept. 18-24.....	1		
<b>Caserta province, Aversa</b>	Oct. 1.....	2		
<b>Province of Foggia—</b>				
Cerignola.....	Aug. 17-Oct. 1.....	35	24	
Margherita di Savola.....	Aug. 17-Sept. 10.....	24	24	
Ortanova.....	Aug. 17-Sept. 10.....	4	2	
San Ferdinando.....	Aug. 17-Sept. 10.....	15	15	
Trinitapoli.....	Aug. 17-Oct. 1.....	55	30	
<b>Province of Potenza—</b>				
Genzano.....	Aug. 17-27.....	2	1	
Palazzo San Gervasio.....	Aug. 17-27.....	1	1	
<b>Salerno, province</b>	Oct. 1.....	1	1	
<b>Auletta.</b>				
<b>Sicily, province—</b>				
Monreal.....	Oct. 1.....	1		
Palermo.....	Oct. 1.....	4		
Sardinia.....	Oct. 3.....	4	1	
<b>Japan:</b>				
Awaji Island.....	July 22-28.....	3		
Ibogan.....	Aug. 5.....	3	1	
Kobe.....	Sept. 21.....			Present.
Moji.....	Aug. 13.....	1		On s. s. Helios.
Nagasaki.....	Aug. 15.....	1		On s. s. Kasuga Maru from Shanghai.
Osaka.....	Aug. 6-13.....	1		
Yokohama.....	Aug. 22.....	1		On s. s. Siberia from Shanghai.

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from June 25 to October 14, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java.....				June 18, present in extreme eastern part. July 30, disappearing from interior and from the coast.
Batavia.....	May 8-Aug. 27....	332	225	Mainly among natives.
Samarang.....	May 8-June 4....	187	152	
Soerabaya.....	May 8-July 15....	103	56	
Korea:				
Chinampo.....	Aug. 26-27.....	2	1	From steamship Suma Maru.
Manchuria:				
Dalny.....	Aug. 21-Sept. 3....	3	1	
Morocco, general.	Sept. 27.....		4	Between Rabat and Casablanca, among troops.
Netherlands:				
Rotterdam.....	July 23-29.....	1		From a vessel from Russia.
Persia:				
Ardabil.....	July 1-6.....	20	6	
Enzell.....	Aug. 20.....		3	
Erzeroum, vilayet.....	Aug. 31-Sept. 10....	52	45	
Hassan Branch.....	July 11-13.....	6	2	
Philippine Islands:				
Manila.....	May 22-Aug. 6....	122	89	July 29, one fatal case from s. s. Batangueno.
Provinces—				
Batangas.....	May 1-Aug. 6....	128	57	
Bulacan.....	May 1-Aug. 6....	678	472	
Cavite.....	June 12-30.....	3	2	
Mountain Province.....	June 26-July 30....	4	3	
Nueva Ecija.....	June 26-Aug. 6....	329	223	
Pampanga.....	Apr. 24-Aug. 6....	232	211	
Pangasinan.....	Apr. 24-Aug. 6....	3,441	2,612	
Rizal.....	June 12-Aug. 6....	114	74	
Tarlac.....	May 8-Aug. 6....	108	79	
Union.....	May 1-July 30....	3	1	
Roumania:				
Galatz.....	Sept. 16.....	1	1	An Italian seaman.
Russia (total for all Russia).....				May 8-Sept. 23—cases, 206,843; deaths, 91,525. June 25, present in districts of Igoumen, Mazir, Pinsk, Retchitsk, and Sloutsk.
Amolinsk, territory.....	Aug. 7-27.....	247	143	
Archangel, government—				
Archangel.....	July 17-23.....	1		
Astrakhan, government.....	July 3-Aug. 27....	1,546	690	
Baku, government.....	May 29-Aug. 20....	916	452	
Baku.....	July 3-Aug. 27....	773	321	
Bessarabia.....	June 5-Aug. 13....	55	16	
Black Sea, province.....	July 3-Aug. 27....	482	156	
Cronstadt.....	July 17-Aug. 27....	176	90	
Daghestan, territory.....	July 17-Aug. 27....	690	195	
Don, territory.....	May 29-Aug. 27....	19,542	1,544	
Kostov on the Don.....	June 19-Aug. 27....	3,045	1,021	
Erivan, government.....	July 24-Aug. 27....	539	252	
Esthonia, government—				
Reval.....	July 24-30.....	1		
Finland.....	Aug. 6.....	2		
Kaluga, government.....	July 17-Aug. 6....	21	3	
Kars, territory.....	Aug. 7-27.....	380	171	
Kharkov, government.....	May 29-Aug. 27....	2,503	1,052	
Khazan.....	June 26-Aug. 27....	1,695	716	
Kherson, government.....	May 29-Aug. 27....	8,000	4,435	
Odessa.....	May 29-Aug. 27....	499	70	June 18-20: Fatal case on steamship Colenzo. Aug. 1-30: Cases 126, deaths 78.
Kief, government.....	May 29-Aug. 20....	1,365	494	
Kostroma, government.....	May 29-Aug. 20....	1,365	494	
Kostroma, government.....	July 10-Aug. 27....	784	391	
Koutais, government.....	Aug. 7-27.....	266	215	
Kuban, government.....	May 29-Aug. 27....	18,823	9,904	
Kursk, government.....	June 26-Aug. 27....	4,698	1,766	
Livonia, government—				
Riga.....	Aug. 1-6.....	1		
Minsk, government.....	May 29-Aug. 27....	364	127	
Mohilev, government.....	May 15-Aug. 27....	150	65	
Moscow, government.....	July 24-Aug. 27....	106	49	
Moscow.....	July 10-30.....	10	5	
Nizhni Novgorod, government.....	July 3-Aug. 27....	1,506	633	
Novgorod, government.....	July 17-Aug. 27....	241	100	
Olonez, government.....	Aug. 14-20.....	1	1	
Orel, government.....	Mar. 30-Aug. 27....	319	123	
Orenburg, government.....	July 17-Aug. 27....	1,025	552	



## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from June 25 to October 14, 1910.

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Russia—Continued.</b>				
Orlov.....	July 3-9.....	22	8	
Perm, government.....	July 17-30.....	55	19	
Podolia, government.....	July 3-Aug. 27.....	553	224	
Pensa, government.....	July 10-Aug. 13.....	401	138	
Perm, government.....	July 17-Aug. 27.....	527	183	
Poltava, government.....	May 29-Aug. 27.....	2,734	1,088	
Pskov, government.....	Aug. 14-27.....	3	1	
Rjasan, government.....	July 3-Aug. 27.....	1,657	703	
St. Petersburg, government.....	July 10-Aug. 27.....	306	149	
St. Petersburg.....	June 19-Aug. 27.....	2,339	1,014	
Samara, government.....	June 19-Aug. 27.....	6,671	2,999	
Sarapul, government.....	July 17-Aug. 27.....	1,010	539	
Saratov, government.....	June 19-Aug. 27.....	3,550	1,430	
Simbirsk, government.....	June 19-Aug. 27.....	2,380	1,065	
Smolensk.....	July 24-Aug. 27.....	29	17	
Stavropol, government.....	June 26-Aug. 27.....	3,689	1,780	
Syr Darya.....	July 24-Aug. 27.....	35	24	
Tambov, government.....	June 19-Aug. 27.....	2,948	1,402	
Taurida, government.....	May 29-Aug. 27.....	3,851	1,902	
Kertsch.....	May 29-Aug. 27.....	470	210	
Sebastopol.....	June 19-Aug. 27.....	39	23	
Theodosia.....	June 19-25.....			Present.
Terek, territory.....	June 19-Aug. 27.....	1,038	546	
Tiflis, government.....	July 17-Aug. 27.....	1,171	453	
Tiflis.....	June 19-July 16.....	113	41	
Techernigov.....	May 29-Aug. 27.....	1,054	378	
Tobolsk.....	Aug. 7-27.....	67	24	
Tomsk, government.....	Aug. 14-27.....	55	16	
Trans-Caspian, territory.....	July 3-Aug. 13.....	57	24	
<b>Trans-Caucasia—</b>				
Tschernomorsk, district—				
Novorossysk.....	June 19-July 3.....	7	6	
Tula, government.....	July 10-Aug. 27.....	34	10	
Turgal, territory.....	July 24-Aug. 27.....	38	22	
Tver, government.....	July 24-Aug. 27.....	11		
Ufa, government.....	July 10-Aug. 20.....	576	356	
Ural, territory.....	Aug. 14-27.....	25	16	
Vitebsk, government.....	May 29-Aug. 27.....	61	11	
Veronesch, government.....	May 29-Aug. 27.....	3,397	1,593	
Viatka.....	July 24-Aug. 27.....	246	126	
Vladimir, government.....	July 24-Aug. 30.....	7	2	
Volhynia, government.....	July 3-Aug. 27.....	45	24	
Vologda, government.....	Aug. 14-27.....	111	70	
Warsaw, district.....	Aug. 25-Sept. 2.....	25	28	
Yaroslav, government.....	July 24-Aug. 27.....	899	464	
Yaroslav.....	July 10-23.....	25	13	
Yekaterinislav, government.....	May 29-Aug. 27.....	13,566	6,161	
Yelisavetpol.....	Aug. 7-13.....	2	1	
<b>Siam:</b>				
Bangkok.....	May 4-Aug. 13.....	711	704	
<b>Straits Settlements:</b>				
Singapore.....	May 8-Aug. 27.....	104	102	
<b>Turkey:</b>				
Constantinople.....	Sept. 19.....	25	9	
Trebizond.....	Sept. 10-16.....	7	1	

## YELLOW FEVER.

<b>Brazil:</b>				
Bahia.....	Apr. 30-June 3.....	2	2	
Manaos.....	May 30-Sept. 10.....	35	35	
Para.....	May 30-Sept. 17.....	110	76	July 25: One death on steamship Augustine, en route from Para to Lisbon, 2 days previous to arrival at Madeira.
Pernambuco.....	May 16.....	21	1	
<b>Costa Rica:</b>				
Limon.....	July 9-14.....	1	1	
San Jose.....	May 28-July 9.....	3	2	Fatal case May 28 from Barranquilla; case June 29 from Siquires; fatal case July 9 from Tivives.
Siquires.....	July 31.....	1	1	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received from June 25 to October 14, 1910.

## YELLOW FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Babahoyo.....	Sept. 1-15.....	1	.....	Present Sept. 19.
Duran.....	Aug. 16-31.....	1	.....	
Guayaquil.....	May 16-Sept. 15.....	65	27	
Milagro.....	Aug. 16-31.....	2	1	Do.
Gold Coast:				
Sekondi.....	May 1-27.....	8	8	
Mexico:				
Campeche.....	Oct. 1.....	3	.....	
Sierra Leone:				
Freetown.....	May 1-Aug. 1.....	7	7	Present.
Sherboro.....	May 20.....	.....	.....	
Venezuela:				
Caracas.....	Sept. 17.....	.....	.....	Do.
La Guaira.....	June 16-30.....	.....	1	

## PLAGUE.

Argentina:				
Rosario.....	Feb. 1-28.....	1	1	
Tucuman.....	Feb. 26-May 31.....	37	16	
Brazil:				
Bahia.....	Apr. 30-Aug. 19.....	9	9	Present.
Para.....	Sept. 21.....	.....	.....	
Pernambuco.....	Apr. 1-June 30.....	.....	2	
Rio de Janeiro.....	June 5-Aug. 31.....	2	1	
Chile, general.....	Jan. 1-May 31.....	104	35	
Iquique.....	May 8-Aug. 27.....	37	12	Do.
Mejillones.....	Apr. 27.....	.....	.....	
Pisagua.....	Apr. 1-May 31.....	14	4	
Taltal.....	Apr. 1-27.....	12	.....	
China:				
Amoy.....	July 3-Aug. 20.....	.....	10	May 8-June 11, 8 to 12 deaths daily. Aug. 6, present in vicinity.
Kulangsü, international city.....	June 5-11.....	.....	1	
Canton.....	July 13-Aug. 6.....	43	31	Mainly at Ho Peng. Present also at Chelin, Feng-chow-so, Taipushien, and Tsai-tang-shi. Epidemic.
Chao Yang district.....	May 5-19.....	.....	3,000	
Chang-pu district.....	June 11.....	.....	.....	
Ching-chew district.....	June 11.....	.....	.....	Do.
Hankow.....	May 15-28.....	5	3	
Hongkong.....	May 8-Aug. 27.....	20	18	
Swatow.....	June 1-July 11.....	.....	.....	Present in vicinity.
Ecuador:				
Babahoyo.....	Sept. 1-15.....	1	.....	Sept. 15—1 case in hospital.
Guayaquil.....	May 16-Sept. 15.....	69	23	
Matilde, plantation.....	Sept. 1-15.....	1	.....	
Roca fuerte.....	Aug. 16-31.....	1	.....	
Egypt:				
Alexandria.....	May 24-Sept. 6.....	23	13	
Ismailia.....	June 19.....	1	1	
Port Said.....	June 14-Aug. 27.....	27	11	
Provinces—				
Assiout.....	May 26-Sept. 7.....	18	9	
Assouan.....	Apr. 30-June 8.....	2	2	
Beni Souef.....	May 27-June 29.....	8	5	
Dakalyieh.....	Aug. 16-26.....	3	2	
Galiobeeh.....	May 21-July 29.....	8	1	
Garbieh.....	May 14-Aug. 27.....	25	11	
Fayoum.....	May 28-July 11.....	20	14	
Kena.....	May 27-June 18.....	24	22	
Menouf.....	May 24-July 22.....	117	22	
Minieh.....	May 31-Aug. 19.....	24	9	
Hawaii:				
Honolulu.....	July 5-12.....	2	2	
India:				
Bombay.....	May 18-Sept. 6.....	.....	860	
Calcutta.....	May 1-Aug. 20.....	.....	515	
Kurrachee.....	May 15-Sept. 10.....	317	307	
Madras.....	June 25-July 1.....	.....	1	
Rangoon.....	May 8-Aug. 27.....	.....	420	
Bombay Presidency and Sind.....	May 1-Aug. 27.....	6,085	4,477	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from June 25 to October 14, 1910.

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India—Continued.</b>				
Madras Presidency.....	May 1-Aug. 27....	616	486	
Bengal.....	May 1-Aug. 27....	1,548	1,371	
United provinces.....	May 1-Aug. 27....	6,670	6,039	
Punjab.....	May 1-Aug. 27....	43,958	38,304	
Burma.....	May 1-Aug. 27....	1,675	1,586	
Eastern Bengal and Assam.	June 12-July 9....	48	45	
Central provinces, including Berar.	May 1-Aug. 27....	1,278	719	
Mysore State.....	May 1-Aug. 27....	882	614	
Hyderabad State.....	May 1-Aug. 27....	704	619	
Central India.....	May 1-Aug. 27....	231	123	
Rajputana and Ajmer-Merwara.	May 1-Aug. 27....	8,246	7,254	
Kashmir.....	May 1-June 11....	58	49	
North West Province.....	June 12-18....	3	3	
Grand total.....		72,002	61,680	
<b>Japan:</b>				
Formosa.....	May 8-June 18....	16	12	
Osaka.....	May 1-June 25....	9	9	
Yokohama.....	Aug. 31.....	1	1	On steamship Manchuria from Hongkong.
<b>Malta:</b>				
Valetta.....	July 16.....	1		In quarantine station on Comino Island, from s. s. North Wales.
<b>Mauritius.</b>				
Apr. 1-July 29....		22	10	
<b>New Zealand:</b>				
Auckland.....	May 23.....	1		
<b>Persia:</b>				
Bouchhr.....	Apr. 29-June 25....	51	40	
<b>Peru:</b>				
Arequipa Department.....	Mar. 1-31.....	16	8	
Mollendo.....	May 16-June 19....	1	1	Aug. 12, one case.
Callao Department.....	Mar. 1-31.....	2		
Callao.....	May 12-19.....	2		Case May 12 from s. s. Victoria; case May 19 from s. s. Nicario; June 28, present.
Lambayeque Department..	Mar. 1-July 31....	40	20	
Libertad Department.....	Mar. 1-July 31....	55	39	
Lima Department.....	Mar. 1-July 31....	20	12	
Piura Department.....	Mar. 1-July 31....	6	3	
<b>Rhodes:</b>				
Aplakia.....	May 22-28.....			Present.
<b>Russia:</b>				
Astrakhan government—				
Khrgiz Steppe.....	June 26-July 7....	13	12	In Kalmuk and Narinsk.
Moscow.....	Aug. 14-Sept. 3....	2	1	
Odesa.....	July 18-Sept. 16....	106	28	
St. Petersburg.....	May 6-28.....	3	3	
<b>Siam:</b>				
Bangkok.....	Apr. 25-Aug. 13....	26	23	
<b>Straits Settlements:</b>				
Singapore.....	May 8-28.....	3	3	
<b>Trinidad:</b>				
Port of Spain.....	May 15-July 14....	2	2	
<b>Tunis:</b>				
Tunis.....	June 30.....	5	3	
<b>Turkey in Asia:</b>				
Basra.....	June 12-Aug. 13....	5	4	
Lobela.....	May 1-24.....	25	27	And vicinity
<b>Venezuela:</b>				
Caracas.....	July 30-Aug. 13....	2	2	
<b>Zanzibar:</b>				
Zanzibar.....	Sept. 10.....	1		

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from June 25 to October 14, 1910.

## SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Abyssinia:</b>				
Adis Ababa.....	May 16-Sept. 3.....			Present.
<b>Argentina:</b>				
Buenos Aires.....	Feb. 1-June 30.....		362	Epidemic. Report for February received out of date. Epidemic.
Mendoza, province.....	July 27.....			
Rosario.....	Feb. 1-July 31.....	6	6	
San Juan, province.....	July 27.....			
<b>Algeria:</b>				
Bona.....	May 1-31.....	1	1	
<b>Arabia:</b>				
Maskat.....	July 19-23.....	1		
<b>Australia:</b>				
Victoria, general.....	Apr. 3-19.....	1	1	
<b>Austria-Hungary:</b>				
Bukowina.....	July 10-16.....	1		
Galicia.....	May 29-July 23.....	5		
<b>Barbados:</b>				
Aug. 16.....		1		From steamship Byron.
<b>Belgium:</b>				
Antwerp.....	July 24-Sept. 10.....	2		
Ghent.....	July 24-Sept. 10.....		2	
<b>Brazil:</b>				
Bahia.....	Apr. 30-Aug. 19.....	306	233	Present.
Campinas.....	July 17-23.....		1	
Manaos.....	Aug. 6-Sept. 3.....			
Para.....	May 29-Sept. 17.....	53	18	
Pernambuco.....	Mar. 16-June 30.....		331	
Rio de Janeiro.....	Apr. 18-Sept. 4.....	13		
Santos.....	May 22-July 16.....		11	
Sao Paulo.....	June 12-25.....		4	
<b>Canada:</b>				
British Columbia—				
Fernie.....	June 12-25.....	4		
Vancouver.....	May 1-31.....	2		
Victoria.....	Aug. 21-Sept. 24.....	3		
Manitoba.....				
Dauphin.....	Sept. 15.....			Present.
Winnipeg.....	June 19-25.....	1		
Nova Scotia—				
Halifax.....	June 14-Sept. 24.....	14		
Pictou.....	June 12-July 23.....	9	1	
Sydney.....	July 3-16.....	20		
Ontario—				
Toronto.....	June 5-Aug. 27.....	12		
<b>Ceylon:</b>				
Colombo.....	June 26-Sept. 3.....	8	3	
<b>Chile:</b>				
Antofagasta.....	July 3-9.....	4		Epidemic. Present. Deaths not reported. Present.
Chilean.....	May 14.....			
Santiago.....	June 19-25.....			
Valparaiso.....	May 19-Sept. 10.....	232		
Victoria.....	May 14.....			
<b>China:</b>				
Canton.....	May 8-28.....	9		
Chefoo.....	June 18-July 2.....	1	1	June 5—Present. July 2—One case from a vessel.
Hongknog.....	May 8-July 30.....	6	3	Present.
Nanking.....	May 7-Aug. 13.....			Cases among foreigners, deaths among natives. June 9—Three cases from U. S. cruiser New Orleans from Nanking.
Shanghai.....	May 22-Sept. 4.....	5	47	Present.
Swatow.....	June 6-July 17.....			
Tsingtau.....	June 12-18.....	2		
<b>Cuba:</b>				
Habana.....	Sept. 17.....	1		On s. s. Corcovado, from Coruna.
<b>Egypt, general.....</b>	Apr. 30-June 17.....	415	85	
Alexandria.....	May 1-June 30.....	4	10	
Cairo.....	May 21-Sept. 23.....	11	5	
Suez.....	May 21-27.....	1		
<b>France:</b>				
Paris.....	May 29-Sept. 3.....	34		
<b>Germany, general.....</b>	May 29-Sept. 10.....	19		
Hamburg.....	June 5-11.....	1		
<b>Gibraltar:</b>				
June 20-Sept. 25.....		6	2	
<b>Great Britain:</b>				
Liverpool.....	July 17-Sept. 24.....	3		
London.....	June 19-Aug. 6.....	6		
South Shields.....	May 22-June 4.....	4	1	

## CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

## Reports Received from June 25 to October 14, 1910.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii:				
Hilo.....	Sept. 10.....	1		Case on s. s. Wilhelmina, from San Francisco via Honolulu.
India:				
Bombay.....	May 18-Sept. 6.....		117	
Calcutta.....	July 10-Aug. 20.....		2	
Kurrachee.....	May 15-July 16.....	12	3	
Madras.....	May 14-Aug. 26.....		24	
Rangoon.....	May 8-Aug. 27.....		38	
Italy, general.....	May 30-Aug. 7.....	66		
Genoa.....	June 16-30.....	1		
Naples.....	May 30-Aug. 21.....	88	17	June 26—One case from s. s. San Giovanni. One case, July 3, on s. s. Pannonia.
Japan:				
Formosa.....	May 22-Sept. 25.....		5	
Java:				
Batavia.....	May 22-Aug. 27.....	5		
Korea:				
Fusan.....	May 1-7.....	1		
Seoul.....	May 26-July 2.....	3	4	
Malta.....	May 22-July 30.....	18	2	
Mexico:				
Aguascalientes.....	June 5-Sept. 17.....		28	
Guadalajara.....	June 11-July 2.....		6	
Mexico.....	May 15-Aug. 20.....		30	
San Luis Potosi.....	May 29-Sept. 4.....	10	6	
Veracruz.....	July 3-9.....	1		
Netherlands:				
Rotterdam.....	Sept. 4-17.....		1	
Persia:				
Kerman.....	July 2.....			Present.
Teheran.....	May 1-31.....		28	Among pilgrims.
Portugal:				
Lisbon.....	May 29-Sept. 24.....	751		Jan. 1-Aug. 20, deaths 170.
Russia:				
Libau.....	May 30-Sept. 4.....	143	9	
Moscow.....	May 22-Sept. 10.....	177	67	
Odessa.....	May 22-Sept. 10.....	51	12	
Riga.....	May 23-Sept. 17.....	404		Apr. 1-June 30, deaths 88.
St. Petersburg.....	May 8-Sept. 3.....	424	167	
Warsaw.....	Mar. 6-Sept. 10.....		174	
Slam:				
Bangkok.....	Apr. 25-June 18.....	3	3	
Siberia:				
Vladivostok.....	Apr. 22-Aug. 13.....	9	1	
Spain:				
Almeria.....	June 1-Aug. 31.....		3	
Barcelona.....	May 31-Sept. 4.....		17	
Cadiz.....	May 1-31.....		1	
Madrid.....	May 1-Aug. 31.....		8	
Seville.....	May 1-Aug. 30.....		5	
Valencia.....	June 19-July 23.....	6		
Vigo.....	June 12-Sept. 18.....		8	
Straits Settlements:				
Penang.....	May 29-Aug. 20.....	14	7	
Singapore.....	May 8-Aug. 27.....	186	58	
Switzerland:				
Thurgau, Canton.....	July 10-16.....	1		
Zurich, Canton.....	June 19-Sept. 17.....	9		
Tripoli:				
Tripoli.....	June 12-18.....	1		
Turkey:				
Constantinople.....	Aug. 22-28.....		1	
Turkey in Asia:				
Basra.....	June 5-Aug. 13.....			Present.
Uruguay:				
Montevideo.....	Apr. 1-July 31.....	744	316	
San Jose.....	July 7.....			Do.
Zanzibar:				
Zanzibar.....	June 1-Aug. 21.....	125	57	

## MORTALITY.

## WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—									
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.
Aberdeen.....	Sept. 23	185,703	47										
Amoy.....	Sept. 3	400,000	8			1							
Amsterdam.....	Oct. 1	572,074	114	19									1
Antwerp.....	Sept. 23	326,351	65	3									2
Barmen.....	Sept. 10	164,600	33	6									
Do.....	Sept. 24		31	2							1		1
Barcelona.....	Sept. 26	591,272	265	25					6			2	
Barranquilla.....	Sept. 24	40,000	20	4					3				2
Belfast.....	do.....	391,167	122	17									3
Do.....	Oct. 1		105	24					1			1	1
Belgrade.....	Sept. 24	80,000	40							2			
Bergen.....	do.....	87,749	18	1							1		
Berlin.....	Sept. 17	2,126,483	513	74					1	10	12	3	2
Birmingham.....	Oct. 1	570,813	142						1	1			
Bombay.....	Sept. 13	977,822	611	12			1		1	1		1	2
Bradford.....	Sept. 10	295,865	79	7								1	2
Do.....	Sept. 17		76	1					1				1
Bremen.....	Sept. 24	241,653	50	10						1		2	
Bristol.....	Oct. 1	382,550	74	3		1					2		1
Budapest.....	Sept. 24	950,610							4	2		2	
Calcutta.....	Aug. 27	847,796	379	28	10	9						3	
Canton.....	do.....	1,000,000	150	10					3	1		2	
Do.....	Sept. 3		160	10					3		2		
Chemnitz.....	Sept. 17	287,818	71	2							1		1
Do.....	Sept. 24		89	12							1		1
Chihuahua.....	Oct. 2	37,000	35	4					1				
Christiana.....	Sept. 24	250,000	48	6						1		3	4
Colome.....	Sept. 17	513,355	157	14					2			5	1
Do.....	Sept. 24		139	13									1
Colonbo.....	Sept. 3	187,554	128	12			2		9				
Constantinople.....	Sept. 25	1,000,000	225	44		9			7			1	
Do.....	Oct. 2		217	30		20			7	1		1	
Copenhagen.....	Sept. 17	455,000	130	10							2		1
Dalny.....	Sept. 10	44,546	22	2					1				
Dresden.....	Sept. 1	552,200	121	19							1		
Do.....	Sept. 24		139	18							1		2
Dublin.....	do.....	402,928	174	27					1		3	3	1
Dundee.....	Oct. 1	170,206	61	5							5		
Edinburgh.....	Sept. 24	360,276	82	8							3		1
Do.....	Oct. 1		101	10						2	2	3	1
Erfurt.....	Sept. 17	169,140	23	1						1	1		
Frankfort-on-the-Main.....	do.....	409,800	68							1	1		
Do.....	Sept. 24		77								1	1	2
Glasgow.....	Sept. 30	884,520	228						2	3	3		1
Do.....	Oct. 7		219							3	4	2	3
Gothenburg.....	Sept. 24	164,000	53	4							2		
Hankow.....	Sept. 10	850,000							1				
Hull.....	Oct. 1	280,006	79						1		1		
Kingston.....	Sept. 17	48,504							1				
Do.....	Sept. 24								1				
Kobe.....	Sept. 11	400,147	230						1				
Do.....	Sept. 18		253			9			1				
Konigsberg.....	Sept. 17	244,200	88	9						2			2
Do.....	Sept. 24		84	14						2	1		
Leeds.....	Oct. 1	490,985	100	4					1			2	4
Leipzig.....	Sept. 17	590,329	156	19					1	1	3	2	2
Do.....	Sept. 26		125	11					1	1	6		1
Leith.....	Oct. 1	86,767	24	2							2		
Liverpool.....	do.....	707,606	267	20					3	6	2	2	4
London.....	Sept. 24	7,537,196	1,555						15	4	12	19	14
Do.....	Oct. 1		1,677						13	5	16	15	12
Lyon.....	Sept. 3	500,000	121	24							1		
Do.....	Sept. 10		136	30					2		1		
Magdeburg.....	Sept. 17	279,988	78	6							1		
Manchester.....	Sept. 24	631,533	218	16					1		2	2	8
Do.....	Oct. 1		192	19						1	3	1	1
Mannheim.....	Sept. 10	195,932	8	5					1				2
Do.....	Sept. 17		11	7							2		2
Monterey.....	Oct. 2	100,000	50	4					4				



## MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—									
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.
Montreal.....	Oct. 8	450,000	136	15						3		1	1
Moscow.....	Sept. 17	1,500,000	635	77		2		1	1	9	17	19	4
Nagasaki.....	Sept. 18	176,970	39	3						1			
Nagoya.....	Aug. 27	400,924	185							3			
Do.....	Sept. 3		161							4			
Do.....	Sept. 10		148							2			
Newcastle-on-Tyne.....	Sept. 24	285,891	79	8								9	3
Do.....	Oct. 1		80	5								2	1
Nottingham.....	Sept. 17	260,000	72							1			
Do.....	Sept. 24		77								2	1	
Do.....	Oct. 1		56										2
Nuremberg.....	Sept. 17	323,500	62	10							1	1	
Odessa.....	do	546,000	210	17	3	11			5	12	13	2	
Do.....	Sept. 24		205	17	1	9			4	10	8		2
Palermo.....	do	340,000	115	8							1		
Paris.....	Sept. 17	2,776,394	716	163					5	1		3	4
Plymouth.....	Oct. 1	124,180	41									1	
Port Antonio.....	do	42,836								1			
Prague.....	Sept. 17	233,344	53	13						1			
Do.....	Sept. 24		57	16								1	
Quebec.....	Oct. 8	85,000	1									2	
Rotterdam.....	Sept. 24	423,677	88							1			
Do.....	Oct. 1		115							2			
Seoul.....	Aug. 20	38,884							1				
Do.....	Sept. 3								1				
Sheffield.....	Sept. 24	472,000	136	4						1		1	1
Do.....	Oct. 1		144	14						1			
Singapore.....	Sept. 3	271,060	237	31		2		5					
Southampton.....	Oct. 1	127,157	33	3						2			
Stettin.....	Sept. 17	239,000	75	2						2			1
Do.....	Sept. 24		73	5								2	1
Talcahuana.....	Sept. 10	29,000	1							1	2		
Trieste.....	Sept. 17	221,124	88							1			2
Do.....	Sept. 24		76							1			1
Valencia.....	do	240,000	77	7						4		1	
Turin.....	Sept. 17	391,988	110	15								2	1
Do.....	Sept. 22		101	15						3		1	
Trebizond.....	Sept. 17	55,000				2							
Do.....	Sept. 24					44							
Vigo.....	do	40,000	14	2				1					
Warsaw.....	July 2	781,179	339	26				6		3	8	7	9
Do.....	July 9		318	48				4		3	9	3	1
Do.....	July 23		295	38				4		1	7	3	12
Do.....	July 30		288	26				3		7	16	2	6
Do.....	Aug. 6		349	32				7		1	19	4	9
Winnipeg.....	Oct. 8	135,000	31	3						2	4		
Yarmouth.....	Oct. 1	6,700		3								2	
Yokohama.....	Sept. 19	407,432								5			

## MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES (untabulated).

**BRAZIL—Ceara.**—Month of August, 1910. Population, 50,000. Total number of deaths from all causes 130, including typhoid fever 8, measles 9, tuberculosis 18.

**Rio de Janeiro.**—Two weeks ended September 4, 1910. Population, 850,000. Total number of deaths from all causes not reported. One death from typhoid fever, 23 deaths from measles, 4 from diphtheria, and 150 from tuberculosis reported.

**EAST AFRICA**—*Lourenço Marquez*.—Month of August, 1910. Population, 10,000. Total number of deaths from all causes 53, including tuberculosis 3.

**GREAT BRITAIN**.—Week ended August 27, 1910.

*England and Wales*.—The deaths registered in 77 great towns correspond to an annual rate of 12.1 per 1,000 of the population, which is estimated at 16,940,895.

*Ireland*.—The deaths registered in 21 principal town districts correspond to an annual rate of 17.1 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Sligo, viz, 8.4, and the highest at Drogheda, viz, 25.2 per 1,000.

*Scotland*.—The deaths registered in 8 principal towns correspond to an annual rate of 13.6 per 1,000 of the population, which is estimated at 1,865,571. The lowest rate was recorded at Edinburgh, viz, 9.7, and the highest at Greenock, viz, 17.7 per 1,000. The total number of deaths from all causes was 492, including typhoid fever 2, scarlet fever 4, diphtheria 6.

**ISLE OF PINES**—*Nueva Gerona*.—Ten days ended September 30, 1910. Population, 892. No deaths. Two cases of typhoid fever and 45 of tuberculosis reported.

**ITALY**—*Genoa*.—Two weeks ended September 15, 1910. Population, 279,163. Total number of deaths from all causes 164, including typhoid fever 3, tuberculosis 21.

*Milan*.—Two weeks ended August 31, 1910. Population, 900,000. Total number of deaths from all causes 82, including typhoid fever 13, diphtheria 2, tuberculosis 67.

**MAURITIUS**.—Month of June, 1910. Population, 373,071. Total number of deaths from all causes 1,025, including diphtheria 1, plague 2, tuberculosis 59.

**NEW ZEALAND**.—Month of June, 1910.

*Auckland*.—Population, 97,929. Total number of deaths 68, including diphtheria 1, tuberculosis 3.

*Christchurch*.—Population, 78,605. Total number of deaths 55, including tuberculosis 1.

*Dunedin*.—Population, 62,584. Total number of deaths 63, including tuberculosis 8.

*Wellington*.—Population, 76,390. Total number of deaths 69, including diphtheria 1.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.